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ABSTRACT

This report presents 22 figures and 32 tables which detail the financial status of Ontario universities. Highlights note: (1)a continued decline in public funding, with per student operating grants from the provincial government 40 percent lower than two decades ago; (2) students now bear double the tuition cost of two decades ago; (3) per client expenditures have declined in the postsecondary sector, while increasing dramatically for hospitals and elementary/secondary schools; (4) the universities' share of the provincial budget is half what it was two decades ago; (5) Ontario government funding for universities remains tenth out of the ten provinces on a per capita basis; (6) Ontario universities are not keeping up with competitors in the United States; (7) Ontario universities' research infrastructure is in decline; (8) operating revenues per full-time equivalent student diminished by over 15 percent during this period; and (9) compared to other universities, tuition fees at Ontario universities appear relatively low; and (10) growth in faculty and in the number of nonacademic staff since 1983-84 has been well below enrollment increases. (DB)

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COUNCIL OF ONTARIO UNIVERSITIES
CONSEIL DES UNIVERSITÉS DE L'ONTARIO

Ontario Universities - 1997

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Prepared by the
Council of Ontario Universities
Conseil des Universités de l'Ontario
180 Dundas Street West, 11th Floor
Toronto, Ontario M5G 1Z8

Requests for further information
should be directed to the
Research, Analysis and Policy Division
Telephone: (416) 979-2165
Fax: (416) 979-8635

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Some of the graphical and tabular data displayed in this report commence with the 1977-78 university fiscal year. This base year has been chosen because it was the final year in which the financial advice of the Ontario Council on University Affairs, the former government advisory body on higher education, was accepted. The data presented end with the most current year for which information is available.

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To the Reader of this Report

The Council of Ontario Universities' report, entitled "Financial Report of Ontario Universities - 1996", sets out the plight of Ontario universities. The report concluded that when compared with universities in the other nine provinces, Ontario universities were at the bottom of the funding scale -- ranking 10th out of 10 in provincial *per capita* funding. An increase of close to $500 million in annual funding would be necessary to bring Ontario universities up to the national average. A broader comparison with state appropriations for higher education in the United States of America clearly reflected the importance that these state governments placed on university education, and reinforced that the Ontario government's position toward education sadly distinguished our province in North America as having the worst two-year decline in funding of any jurisdiction in either Canada or the United States.

This 1997 report comprises an alarming duplication of the grim statistics reported in 1996. Ontario universities remain at the bottom of the national funding scale.

The Government of Ontario's own Advisory Panel on Future Directions for Postsecondary Education, report released in December 1996, had as its first recommendation the immediate need to correct the *serious inadequacies in total financial resources available to postsecondary education*. The second recommendation was that the Government of Ontario should provide support to Ontario universities and colleges at a level *comparable to the average for other Canadian provinces and be reasonably in line with government support of major public university and college systems in the United States*. Despite the recommendations of this government-appointed panel, little has been done to ensure the future well-being of postsecondary education in Ontario.

Recently, the Government of Ontario responded to the Panel's recommendation that an institution's board of governors should have the responsibility to set tuition fees at whatever levels are regarded as appropriate, on a program by program basis, as long as certain provisions are made for student assistance. The Government of Ontario has announced that university boards of governors will have increased responsibility for setting tuition fees in graduate and professional programs as defined by the Government of Ontario.

Ontario universities are still feeling the devastation brought about from five years of successive funding reduction, which saw the loss of one quarter of the provincial operating grants for universities. No movement has been made toward bringing the public funding of Ontario universities closer to the national average. Neither has there been a response to the Panel's recommendation that calls for a quadrupling of funding for research overhead and infrastructure support. Such increased funding would help to restore Ontario universities' capacity to compete for federally sponsored research, and therein, to secure the development of our province and country.

At the time of this report's publication, the Government of Ontario had announced the operating grants for postsecondary education for 1998-99 and 1999-2000. In so doing, it has bundled its student assistance program costs with the operating grants to universities and colleges, thereby sharing its financial risk exposure on that program with universities and colleges and offloading its accessibility responsibility on to universities and colleges. The operating grants to universities is not only frozen for yet another year, but there is the risk that funding might also be reduced if the Government of Ontario is unable to manage its student assistance program effectively.

The Advisory Panel on Future Directions for Postsecondary Education was clear in its position that a first-rate postsecondary education system is vital for Ontario's future. It concluded that public financial support for postsecondary education is seriously inadequate, and that it would be extraordinarily short-sighted to allow the system to continue its decline. The figures and tables featured in this report are testimony to the critical importance to heed the Panel's advice.

Highlights of this Year's Report

- Public funding continues to decline. Per student operating grants from the provincial government are almost 40% lower than they were two decades ago (Figure 1 and Table 1).
- Provincial government off-loading has resulted in students shouldering a doubling of tuition costs over the same period. (Figure 1).
- Neither the provincial nor the federal governments have provided sufficient financial support to enable universities to accommodate the tremendous growth in enrolment over the past two decades (Figure 2 and Table 2).
- Per client expenditures have declined in the postsecondary sector over the past two decades but have nearly doubled for hospitals and increased by a third for elementary and secondary schools (Figure 3 and Table 3).
- Universities' share of the provincial budget has continually eroded. While provincial grants to universities have more than doubled, the provincial budget has more than quadrupled and universities' share is about half what it was two decades ago (Tables 4 and 6 and Figure 5).
- Ontario government financing for universities remains 10th out of the 10 provinces on a per capita basis; 10th out of the 10 provinces on personal income basis; and 9th out of the 10 provinces on a per FTE basis (Figures 6, and 8 and Tables 8, 9 and 10).
- Over the past two years, state government appropriations to universities have increased in the United States in all states except Alaska and Hawaii while Ontario cut its operating grant to universities by 15% (Table 16).
- Within Canada, Ontario is among the leaders in spending by hospitals and schools but among the laggers on spending by universities (Figure 9 and Table 12) and Ontario has the highest social welfare benefits (Table 13).
- Ontario universities are not keeping up with their competitors in the United States (Figures 10 and 11 and Tables 14 and 15).
- Ontario universities' research infrastructure is in decline. Over the past two decades, while sponsored research expenditures have more than doubled, operating expenses which include support for research activities, grew by less than 20% (Table 18).
- Tuition fees, as a proportion of family income, have remained relatively stable for about 15 years until 1992-93 (Figure 13 and Table 20). Despite the sharp government funding cutbacks that started in 1993-94 resulting in the shift of a greater proportion of universities' revenues to tuition fees, operating revenues per FTE student diminished by over 15% (Figure 1).
- Compared to other universities, tuition fees at Ontario universities appear relatively low (Tables 21 and 22).

- Government spending on student assistance for postsecondary students in universities, colleges and private-training schools has tripled over the past two decades. Universities have responded by tripling their scholarships and bursaries spending (Tables 23 and 24).

- Growth in faculty and non-academic staff numbers since 1983-84 has been well below enrolment increases (Figure 15 and Table 28).

- Universities have been spending substantially more on their buildings, renovations and alterations to maintain the physical plant than they have received from the government (Figure 16 and Table 32). Despite this, our spending per FTE is 10th out of the 10 provinces.

- Employment prospects are best with a university education (Figures 17, 18 and 19, and Tables 33 and 34).

- Ontario leads the country in average income in all categories of educational attainment. A university degree commands the highest average income (Figure 22 and Table 36).

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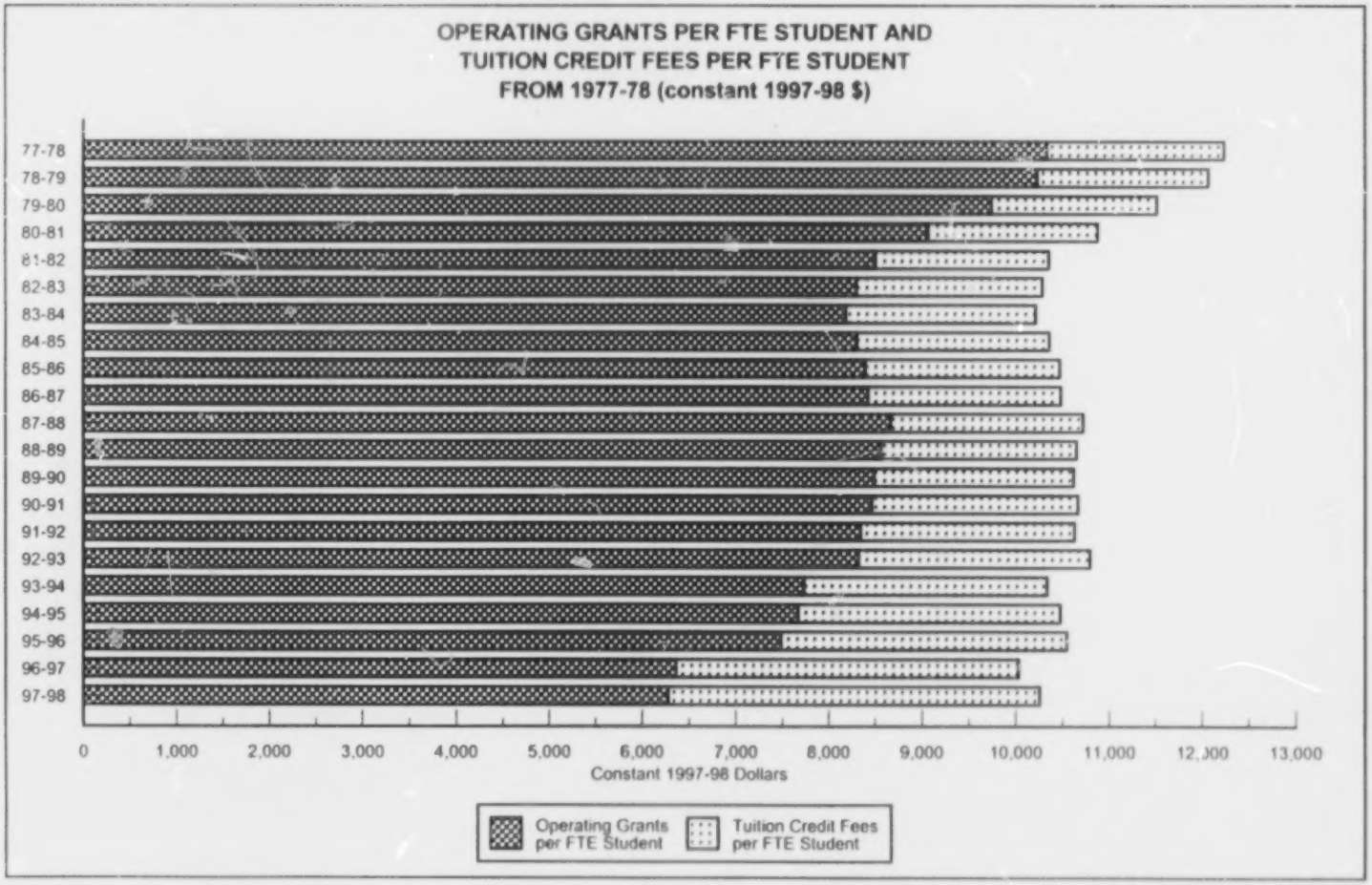
OPERATING GRANTS PER FTE STUDENT AND
TUITION CREDIT FEES PER FTE STUDENT
FROM 1977-78 (constant 1997-98 $)
77-78
78-79
79-80
80-81
81-82
82-83
83-84
84-85
85-86
86-87
87-88
88-89
89-90
90-91
91-92
92-93
93-94
94-95
95-96
96-97
97-98
0
1,000
2,000
3,000
4,000
5,000
6,000
7,000
8,000
9,000
10,000
11,000
12,000
13,000
Constant 1997-98 Dollars
Operating Grants per FTE Student
Tuition Credit Fees per FTE Student

TABLE 1

OPERATING GRANTS PER FTE STUDENT

ONTARIO

1977-78 TO 1997-98

	Operating Grant ($ millions)	FTE* Enrolment	Operating Grants per FTE Student	Constant $	Index of Constant $
1977-78	703.6	179,235.3	3,925.64	10,339.96	100.0
1978-79	744.2	175,434.0	4,241.91	10,236.89	99.0
1979-80	781.9	177,253.9	4,411.07	9,746.20	94.3
1980-81	838.1	183,787.1	4,560.03	9,067.80	87.7
1981-82	923.5	192,510.4	4,797.18	8,502.11	82.2
1982-83	1,035.7	202,170.6	5,122.76	8,299.04	80.3
1983-84	1,112.8	209,603.7	5,309.21	8,183.72	79.1
1984-85	1,184.7	211,666.9	5,597.21	8,303.80	80.3
1985-86	1,244.8	211,276.3	5,891.96	8,396.80	81.2
1986-87	1,312.9	213,118.7	6,160.47	8,425.60	81.5
1987-88	1,451.6	219,554.4	6,611.54	8,669.72	83.8
1988-89	1,554.9	228,524.7	6,804.28	8,562.83	82.8
1989-90	1,676.9	236,057.3	7,103.63	8,489.60	82.1
1990-91	1,822.8	244,847.0	7,444.63	8,465.39	81.9
1991-92	1,945.1	254,783.4	7,634.22	8,347.09	80.7
1992-93	2,009.1	259,584.3	7,739.81	8,326.54	80.5
1993-94	1,876.0	257,474.7	7,286.05	7,735.24	74.8
1994-95	1,853.6	254,930.3	7,271.12	7,672.09	74.2
1995-96	1,823.1	251,791.3	7,240.69	7,486.50	72.4
1996-97	1,550.7	247,477.4	6,266.11	6,364.28	61.6
1997-98 (e)	1,554.7	247,477.4	6,282.28	6,282.28	60.8

* COU estimate of full-time equivalent enrolment (eligible and ineligible), see Appendix D.
(e) Estimate

Source: Ontario, Public Accounts, various years.
Ontario, Expenditure Estimates, 1997-98.
Ontario Ministry of Education and Training's UAR Financial Report.

FIGURE 2

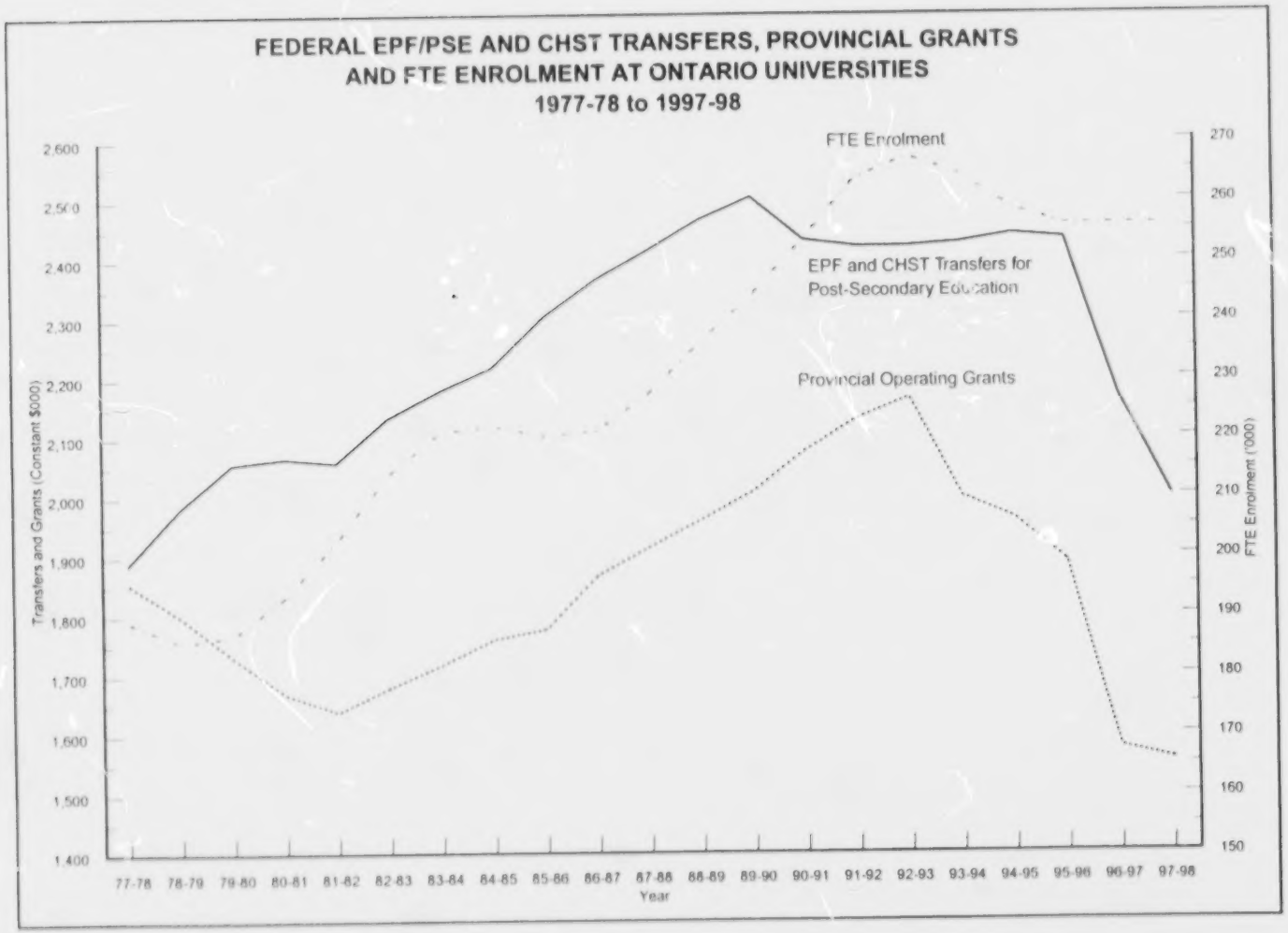
FEDERAL EPF/PSE AND CHST TRANSFERS, PROVINCIAL GRANTS
AND FTE ENROLMENT AT ONTARIO UNIVERSITIES
1977-78 to 1997-98
FTE Enrolment
EPF and CHST Transfers for
Post-Secondary Education
Provincial Operating Grants
Transfers and Grants (Constant $000)
FTE Enrolment ('000)
2,600
2,500
2,400
2,300
2,200
2,100
2,000
1,900
1,800
1,700
1,600
1,500
1,400
270
260
250
240
230
220
210
200
190
180
170
160
150
77-78 78-79 79-80 80-81 81-82 82-83 83-84 84-85 85-86 86-87 87-88 88-89 89-90 90-91 91-92 92-93 93-94 94-95 95-96 96-97 97-98
Year

TABLE 2

FEDERAL AND PROVINCIAL
SUPPORT FOR ONTARIO UNIVERSITIES

($000)

		EPF and CHST Transfers to Ontario for Post-Secondary Education				Provincial Operating Grants to Ontario Universities	
		Tax $ Actual	Cash $ Actual	Total $ Actual	Total $ Constant	Total $ Actual	Total $ Constant
EPF/PSE							
1977-78		324,260	391,326	715,586	1,884,728	703,648	1,853,286
1978-79		362,936	457,399	820,335	1,979,693	744,175	1,795,898
1979-80		410,587	518,380	928,967	2,052,540	781,879	1,727,551
1980-81		471,528	565,580	1,037,108	2,062,328	838,075	1,666,544
1981-82		535,455	623,942	1,159,397	2,054,817	923,506	1,636,744
1982-83		616,315	698,616	1,314,931	2,130,230	1,035,671	1,677,821
1983-84		651,694	760,579	1,411,273	2,175,364	1,112,830	1,715,338
1984-85		728,864	763,843	1,492,707	2,214,521	1,184,744	1,757,640
1985-86		821,212	792,299	1,613,511	2,299,463	1,244,830	1,774,046
1986-87		922,025	805,018	1,727,043	2,362,055	1,312,911	1,795,652
1987-88		1,055,669	782,037	1,837,706	2,409,787	1,451,592	1,903,475
1988-89		1,180,009	775,937	1,955,946	2,461,454	1,554,947	1,956,818
1989-90		1,300,929	790,246	2,091,175	2,499,176	1,676,864	2,004,031
1990-91		1,309,574	824,862	2,134,436	2,427,096	1,822,796	2,072,726
1991-92		1,286,070	923,867	2,209,937	2,416,297	1,945,074	2,126,701
1992-93		1,261,436	985,040	2,246,476	2,416,774	2,009,133	2,161,438
1993-94		1,291,314	990,153	2,281,467	2,422,122	1,875,973	1,991,629
1994-95		1,348,866	960,344	2,309,210	2,436,550	1,853,629	1,955,847
1995-96		1,451,534	997,870	2,349,404	2,429,163	1,823,143	1,885,036
CHST							
1996-97	(e)	1,528,014	602,533	2,130,547	2,163,926	1,550,722	1,575,016
1997-98	(e)	1,612,441	386,150	1,998,591	1,998,591	1,554,722	1,554,722

(e) Estimated by prorating 1996-97 and 1997-98 CHST total for Ontario in the same proportions of CAP and EPF, as per 1995-96 actual.

Source: Canada, Department of Finance, Federal-Provincial Relations Division,
Established Programs Financing, various years.
and Canada Health and Social Transfer, various years.
Ontario, Public Accounts, various years.

FIGURE 3

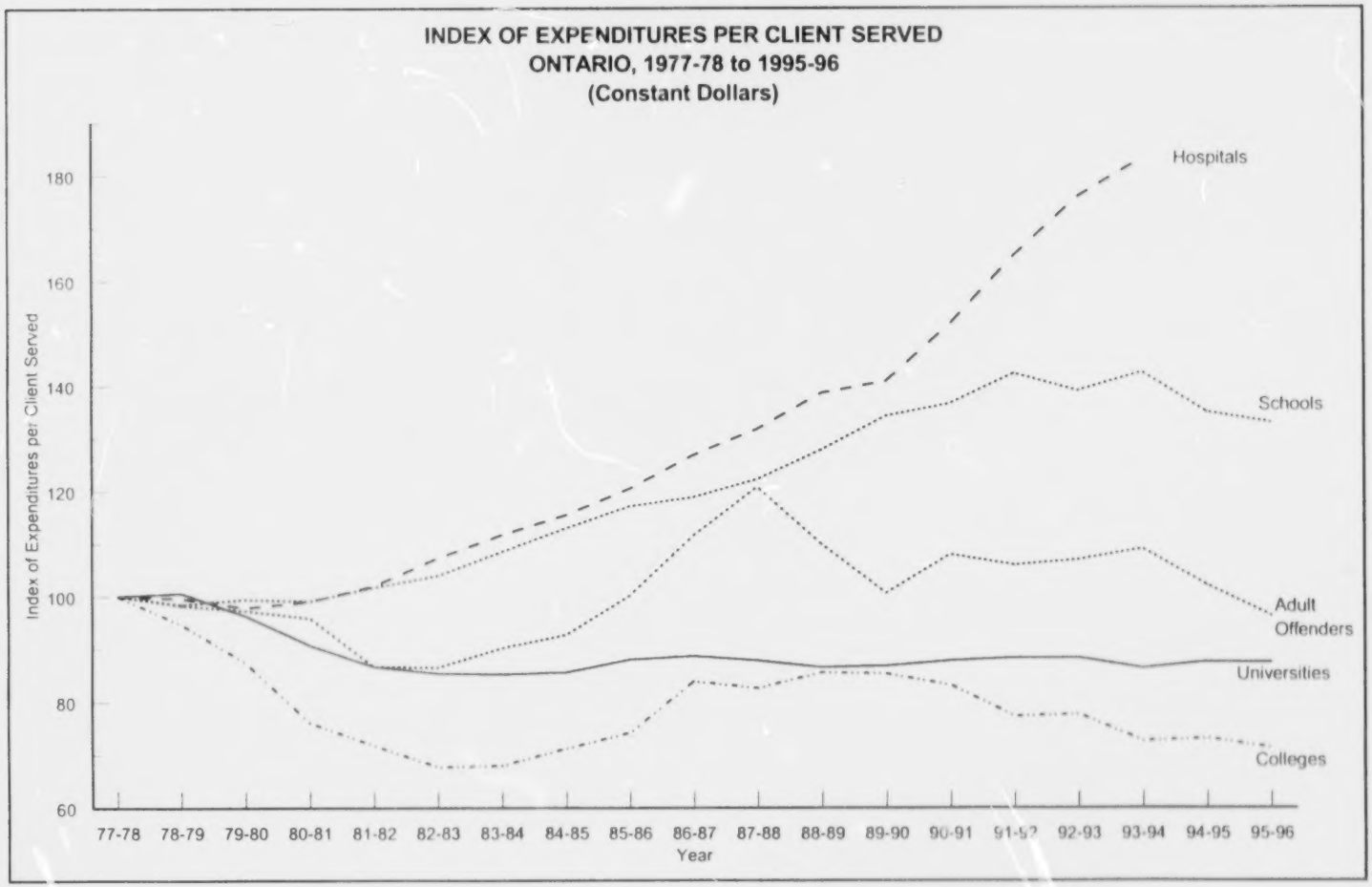
INDEX OF EXPENDITURES PER CLIENT SERVED
ONTARIO, 1977-78 to 1995-96
(Constant Dollars)
Index of Expenditures per Client Served
180
160
140
120
100
80
60
Hospitals
Schools
Adult Offenders
Universities
Colleges
77-78
78-79
79-80
80-81
81-82
82-83
83-84
84-85
85-86
86-87
87-88
88-89
89-90
90-91
91-92
92-93
93-94
94-95
95-96
Year

TABLE 3

ONTARIO EXPENDITURES PER CLIENT SERVED, 1977-78 TO 1995-96

		1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96
Elementary & Secondary Education (total school costs per pupil)1	Actual $	2,083	2,240	2,468	2,735	3,149	3,517	3,859	4,173	4,505	4,761	5,111	5,570	6,156	6,586	7,136	7,087	7,363	7,019	7,054
	Constant $	5,304	5,226	5,272	5,258	5,394	5,508	5,751	5,986	6,209	6,299	6,481	6,779	7,118	7,243	7,546	7,374	7,561	7,163	7,054
	Index	100.0	98.5	99.4	99.1	101.7	103.9	108.4	112.9	117.1	118.8	122.2	127.8	134.2	136.6	142.3	139.0	142.6	135.0	133.0
Hospitals (gross operating costs per diem)2	Actual $	151.91	165.06	177.19	199.15	230.06	264.67	289.52	311.06	337.82	370.80	401.88	440.42	470.85	533.21	602.24	653.58	689.42	n/a	n/a
	Constant $	386.80	385.09	378.48	382.85	394.08	414.52	431.50	446.22	465.59	490.59	509.57	536.02	544.45	586.39	636.82	680.03	707.89	0	0
	Index	100.0	99.6	97.8	99.0	101.9	107.2	111.6	115.4	120.4	126.8	131.7	138.6	140.8	151.6	164.6	175.8	183.0	n/a	n/a
CAATs (operating cost per provincially-funded FTE student)3	Actual $	3,949	4,083	4,113	3,979	4,214	4,345	4,586	4,989	5,412	6,378	6,551	7,075	7,419	7,603	7,349	7,507	7,108	7,205	7,176
	Constant $	10,055	9,526	8,785	7,649	7,218	6,805	6,835	7,157	7,459	8,438	8,306	8,611	8,579	8,361	7,771	7,811	7,298	7,353	7,176
	Index	100.0	94.7	87.4	76.1	71.8	67.7	68.0	71.2	74.2	83.9	82.6	85.6	85.3	83.2	77.3	77.7	72.6	73.1	71.4
Adult Offenders (expenditure per inmate day)4	Actual $	47.50	50.97	55.09	60.32	61.22	66.30	73.16	78.17	87.83	101.89	115.10	109.10	105.25	118.71	121.07	124.28	128.42	120.97	116.48
	Constant $	120.95	118.91	117.67	115.96	104.87	104.62	109.04	112.14	121.05	134.81	145.94	132.78	121.70	130.55	128.02	129.31	131.86	123.45	116.48
	Index	100.0	98.3	97.3	95.9	86.7	86.5	90.2	92.7	100.1	111.5	120.7	109.8	100.6	107.9	105.9	106.9	109.0	102.1	96.3
Universities (operating expense per FTE student)5	Actual $	4,845	5,317	5,560	5,818	6,242	6,723	7,055	7,361	7,877	8,258	8,540	8,769	9,258	9,843	10,301	10,472	10,369	10,580	10,781
	Constant $	12,336	12,404	11,877	11,184	10,693	10,529	10,515	10,560	10,856	10,926	10,829	10,672	10,706	10,825	10,892	10,896	10,646	10,797	10,781
	Index	100.0	100.6	96.3	90.7	86.7	85.4	85.2	85.6	88.0	88.6	87.8	86.5	86.8	87.8	88.3	88.3	86.3	87.5	87.4

Sources:
1 Ministry of Education and Training.
2 Ministry of Health, Hospital Statistics, various years. Data for 1994-95 and 1995-96 are unavailable.
3 Ministry of Education and Training and Ontario College Information System (OCIS). Provincially funded FTE's include full-time postsecondary, tuition short, and part-time programs. Since CAATs operate on a non-profit basis, total revenue is considered as a proxy for total operating cost.
4 Ministry of Correctional Services.
5 Council of Finance Officers - Universities of Ontario, Financial Report of Ontario Universities, various years.

TABLE 4

INDEX OF PROVINCIAL OPERATING GRANTS TO UNIVERSITIES
AND TOTAL PROVINCIAL BUDGETARY EXPENDITURES
1977-78 TO 1997-98

	Operating Grants to Ontario Universities	Total Provincial Budgetary Expenditures	Index of Universities' Share
1977-78	100.0	100.0	100.0
1978-79	105.8	107.8	98.1
1979-80	111.1	116.9	95.1
1980-81	119.1	128.2	92.9
1981-82	131.2	149.7	87.7
1982-83	147.2	171.4	85.9
1983-84	158.2	187.0	84.6
1984-85	168.4	201.3	83.6
1985-86	176.9	223.1	79.3
1986-87	186.6	245.1	76.1
1987-88	206.3	266.1	77.5
1988-89	221.0	295.0	74.9
1989-90	238.3	316.9	75.2
1990-91	259.0	353.8	73.2
1991-92	276.4	393.6	70.2
1992-93	285.5	409.1	69.8
1993-94	266.6	410.4	65.0
1994-95	263.4	408.4	64.5
1995-96	259.1	442.9	58.5
1996-97	220.4	411.5	53.6
1997-98 (e)	221.0	426.7	51.8

Source: Province of Ontario, Public Accounts, various years
Province of Ontario, Expenditure Estimates, 1997-98

FIGURE 4

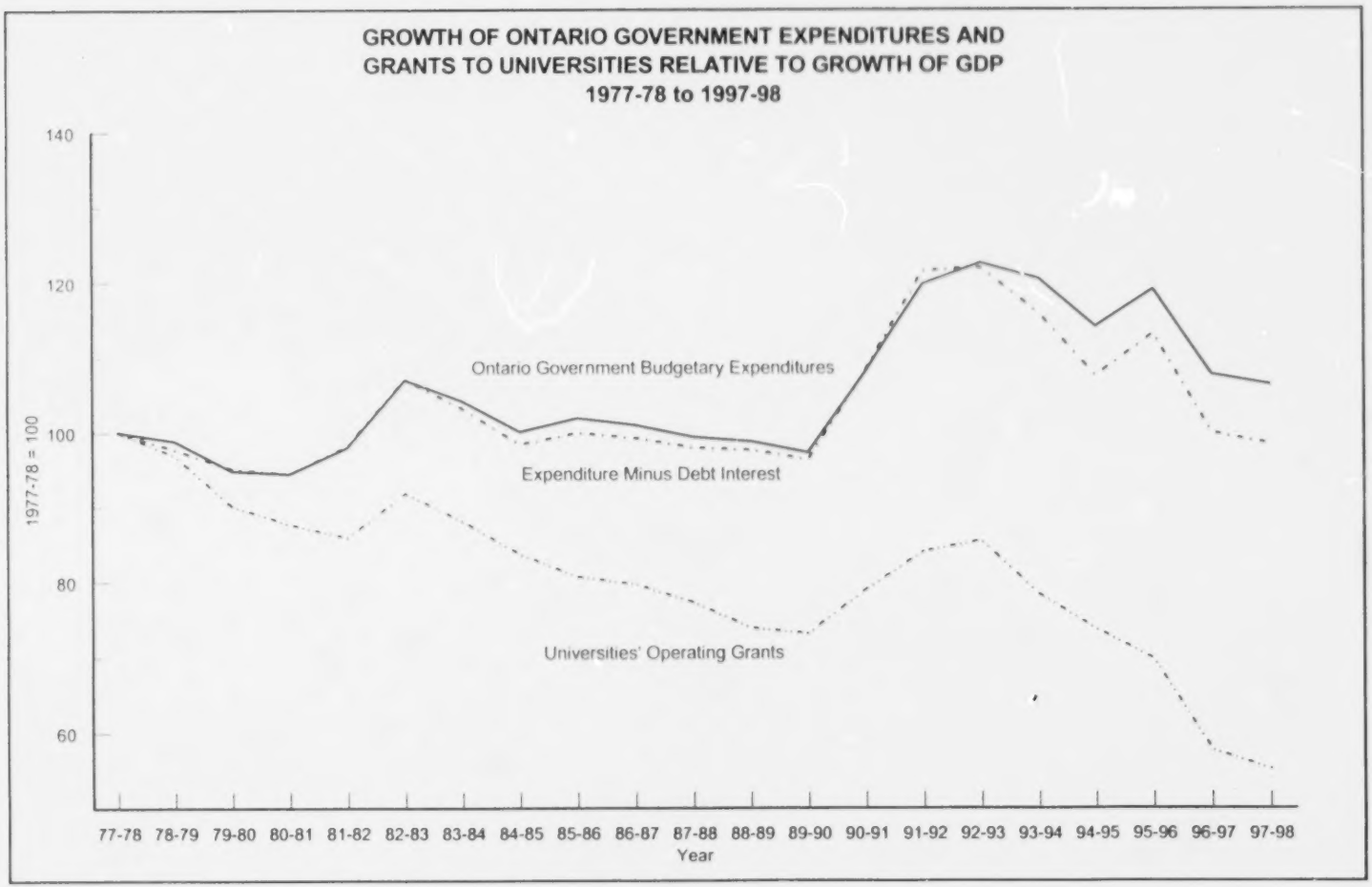
GROWTH OF ONTARIO GOVERNMENT EXPENDITURES AND
GRANTS TO UNIVERSITIES RELATIVE TO GROWTH OF GDP
1977-78 to 1997-98
140
120
100
80
60
1977-78 = 100
Ontario Government Budgetary Expenditures
Expenditure Minus Debt Interest
Universities' Operating Grants
77-78 78-79 79-80 80-81 81-82 82-83 83-84 84-85 85-86 86-87 87-88 88-89 89-90 90-91 91-92 92-93 93-94 94-95 95-96 96-97 97-98
Year

TABLE 5

GROWTH OF ONTARIO GOVERNMENT EXPENDITURES AND GRANTS TO UNIVERSITIES RELATIVE TO THE GROWTH OF THE GROSS DOMESTIC PRODUCT 1977-78 TO 1997-98

	Growth of Government vs. GDP	Government Minus Debt Interest vs. GDP	Growth of Universities' Grants vs. GDP
1977-78	100.0	100.0	100.0
1978-79	98.8	97.7	96.9
1979-80	94.8	95.1	90.1
1980-81	94.4	94.4	87.7
1981-82	97.9	98.1	85.9
1982-83	106.9	107.0	91.8
1983-84	104.1	103.1	88.1
1984-85	100.0	98.3	83.7
1985-86	101.8	99.9	80.7
1986-87	100.9	99.2	76.8
1987-88	99.3	97.9	77.0
1988-89	98.7	97.6	73.9
1989-90	97.2	96.3	73.1
1990-91	108.0	108.2	79.0
1991-92	119.7	121.5	84.0
1992-93	122.5	121.9	85.5
1993-94	120.4	115.8	78.2
1994-95	114.0	107.4	73.6
1995-96	119.0	113.1	69.6
1996-97 (e)	107.6	99.9	57.7
1997-98 (e)	106.3	98.4	55.0

Note: The three columns of data compare the rates of growth of government expenditures (including and excluding debt payments) and grants to universities with the rate of growth of the economy. That is, an index value of 100.0 indicates an identical growth rate to that of the GDP, a lesser value indicates a lower rate of growth, and a value greater than 100.0 indicates a growth rate greater than the growth rate of the GDP.

Sources: Public Accounts of Ontario, various years
1997 Ontario Budget

FIGURE 5

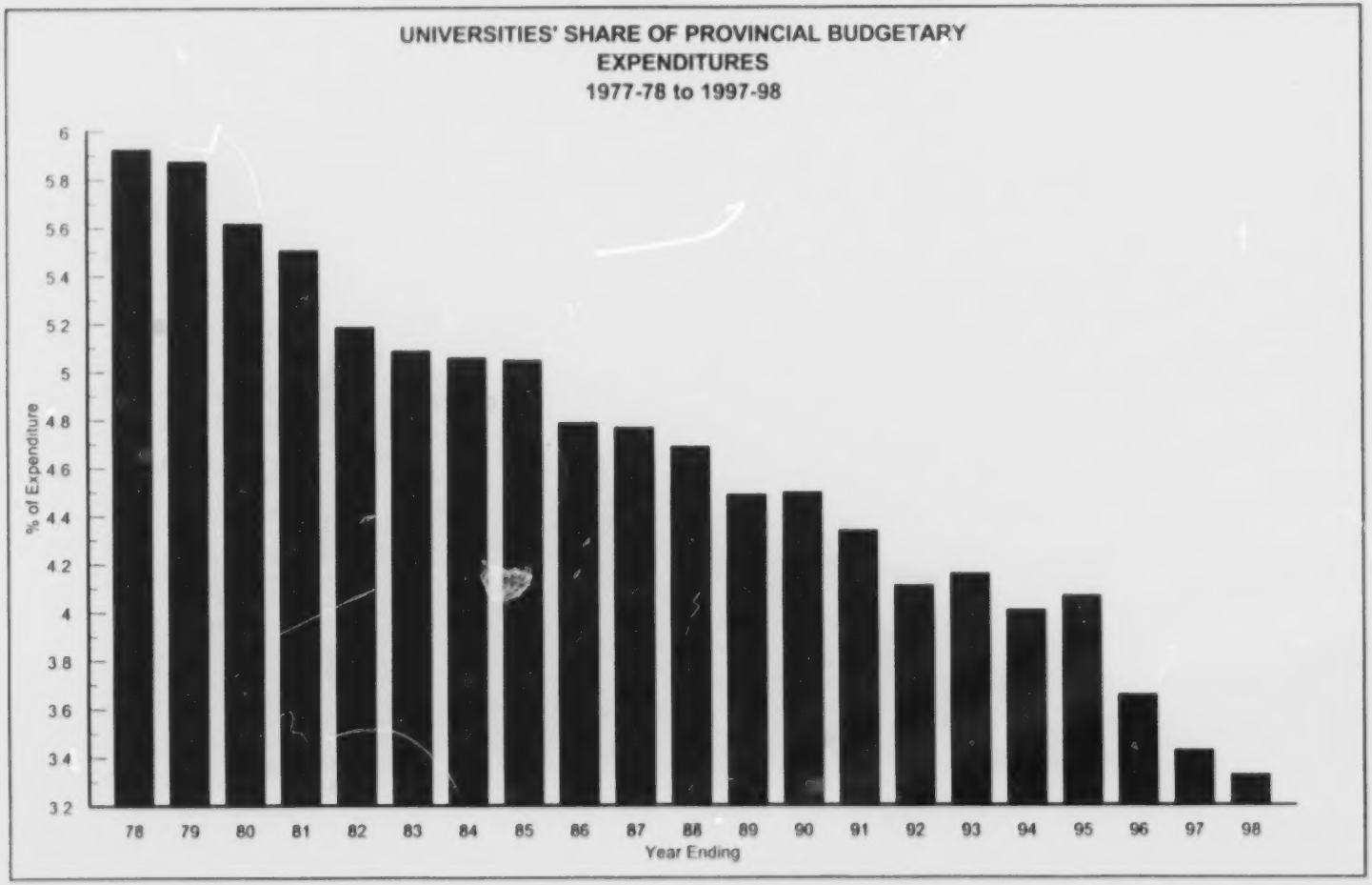
UNIVERSITIES' SHARE OF PROVINCIAL BUDGETARY EXPENDITURES
1977-78 to 1997-98
% of Expenditure
6
5.8
5.6
5.4
5.2
5
4.8
4.6
4.4
4.2
4
3.8
3.6
3.4
3.2
78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98
Year Ending

TABLE 6

ONTARIO UNIVERSITIES' SHARE OF PROVINCIAL BUDGETARY EXPENDITURES (EXCLUDING PUBLIC-DEBT INTEREST PAYMENTS)

	Provincial Budgetary Expenditure Excluding PDI	Operating Grants to Universities	Universities' Share
	$ millions	$ millions	%
1977-78	11,887.3	703.6	5.92
1978-79	12,682.7	744.2	5.87
1979-80	13,938.3	781.9	5.61
1980-81	15,240.9	838.1	5.50
1981-82	17,818.3	923.5	5.18
1982-83	20,398.9	1,035.7	5.08
1983-84	22,019.5	1,112.8	5.05
1984-85	23,509.2	1,184.7	5.04
1985-86	26,047.0	1,244.8	4.78
1986-87	28,638.8	1,312.9	4.58
1987-88	31,170.6	1,451.6	4.66
1988-89	34,702.5	1,554.9	4.48
1989-90	37,318.0	1,676.9	4.49
1990-91	42,144.5	1,822.8	4.33
1991-92	47,487.0	1,945.1	4.10
1992-93	48,413.9	2,009.1	4.15
1993-94	46,924.3	1,876.0	4.00
1994-95	45,734.4	1,853.6	4.05
1995-96	50,038.9	1,823.1	3.64
1996-97	45,373.5	1,550.7	3.42
1997-98 (e)	46,950.1	1,554.7	3.31

(e) Estimate

Source: Ontario, Public Accounts, various years.
1997-98 Expenditure Estimates.

TABLE 7

COMPARISON OF BENEFIT COSTS
1977-78 TO 1995-96
($000 CONSTANT 1995-96 DOLLARS)
(EXCLUDING OCA, ALGOMA, NIPISSING, HEARST)

	1977 -78	1978 -79	1979 -80	1980 -81	1981 -82	1982 -83	1983 -84	1984 -85	1985 -86	1986 -87	1987 -88	1988 -89	1989 -90	1990 -91	1991 -92	1992 -93	1993 -94	1994 -95	1995 -96
STATUTORY BENEFITS																			
O.H.I.P.	14,831	15,537	13,817	11,837	12,068	13,677	13,543	13,871	13,610	13,396	12,958	12,511	8,498	-	-	-	-	-	-
Canada Pension	15,048	14,697	14,382	14,213	14,139	14,940	15,252	15,957	19,191	18,417	18,854	19,984	21,790	23,441	25,379	26,440	26,651	28,055	28,053
Workers' Comp.	2,415	2,156	2,105	1,977	2,361	2,697	2,807	3,279	3,839	4,291	4,884	5,141	5,242	5,771	6,131	6,907	6,787	7,138	7,292
Unemployment Insurance	18,472	16,829	14,023	16,195	19,489	22,500	28,804	30,156	31,724	32,539	33,285	32,243	31,370	35,761	46,030	50,661	50,966	52,464	49,159
Emp. Health Tax	-	-	-	-	-	-	-	-	-	-	-	-	11,751	34,949	37,204	37,542	37,386	36,144	34,007
Total Statutory Benefits	50,767	49,219	44,327	44,223	48,056	53,813	60,406	63,263	68,363	68,643	69,981	69,879	78,651	99,921	114,745	121,549	121,790	123,801	118,511
Percent of Total	28.5	27.8	26.9	27.9	29.1	30.0	31.6	32.4	33.6	34.7	37.1	36.4	37.7	42.2	41.2	41.1	46.7	45.7	46.2
NON-STATUTORY BENEFITS																			
Pension																			
- Current Service	91,733	90,913	88,765	85,012	86,492	91,751	94,690	94,554	95,049	93,570	101,781	79,909	80,225	82,844	100,469	108,060	66,888	63,734	59,191
- Experience Def.	3,855	4,229	1,056	352	667	661	480	443	(263)	(259)	(250)	(770)	0	0	0	146	0	0	0
- Past Serv. Liab.	8,831	8,284	5,193	1,668	252	832	1,044	1,319	0	120	195	(1,280)	335	361	160	322	49	2	0
Group Life Insur.	9,776	8,823	8,394	7,595	6,682	7,162	7,381	6,936	7,234	7,155	7,560	7,923	8,611	9,188	8,247	9,718	10,221	9,825	9,112
Long Term Disab.	4,599	4,776	4,696	5,839	5,552	6,216	7,329	7,130	7,049	7,110	7,329	7,848	7,450	8,135	8,683	9,427	9,570	9,715	9,870
Dental Insurance	3,114	4,939	4,905	5,720	7,440	8,433	8,757	9,547	10,911	11,955	12,854	13,317	15,241	15,523	17,930	17,554	20,562	23,394	22,691
Ext. Health Care	2,749	2,398	2,287	3,192	3,556	4,461	4,897	5,761	7,136	7,707	8,330	9,632	11,069	13,255	15,292	16,792	21,982	24,775	24,132
Tuition Remission	1,220	2,240	3,618	3,660	4,510	4,591	4,802	5,858	5,974	5,863	5,388	5,953	6,160	7,084	7,464	7,315	7,721	8,104	8,235
Other	1,236	1,105	1,320	1,260	1,666	1,575	1,336	623	1,738	(4,288)	(24,505)	(371)	1,127	312	5,384	4,704	2,076	7,788	4,700
Total Non-statutory Benefits	127,114	127,707	120,234	114,299	116,617	125,681	130,716	132,171	134,826	128,931	118,681	122,161	130,218	136,701	163,628	174,038	139,069	147,338	137,931
Percent of Total	71.5	72.2	73.1	72.1	70.9	70.0	68.4	67.6	66.4	65.3	62.9	63.6	62.3	57.8	58.8	58.9	53.3	54.3	53.8
Total Benefits	177,881	176,926	164,561	158,522	164,673	179,494	191,122	195,434	203,189	197,575	188,662	192,039	208,868	236,623	278,373	295,587	260,859	271,139	256,442

Source: COFO-UO Financial Report of Ontario Universities, various years.

FIGURE 6

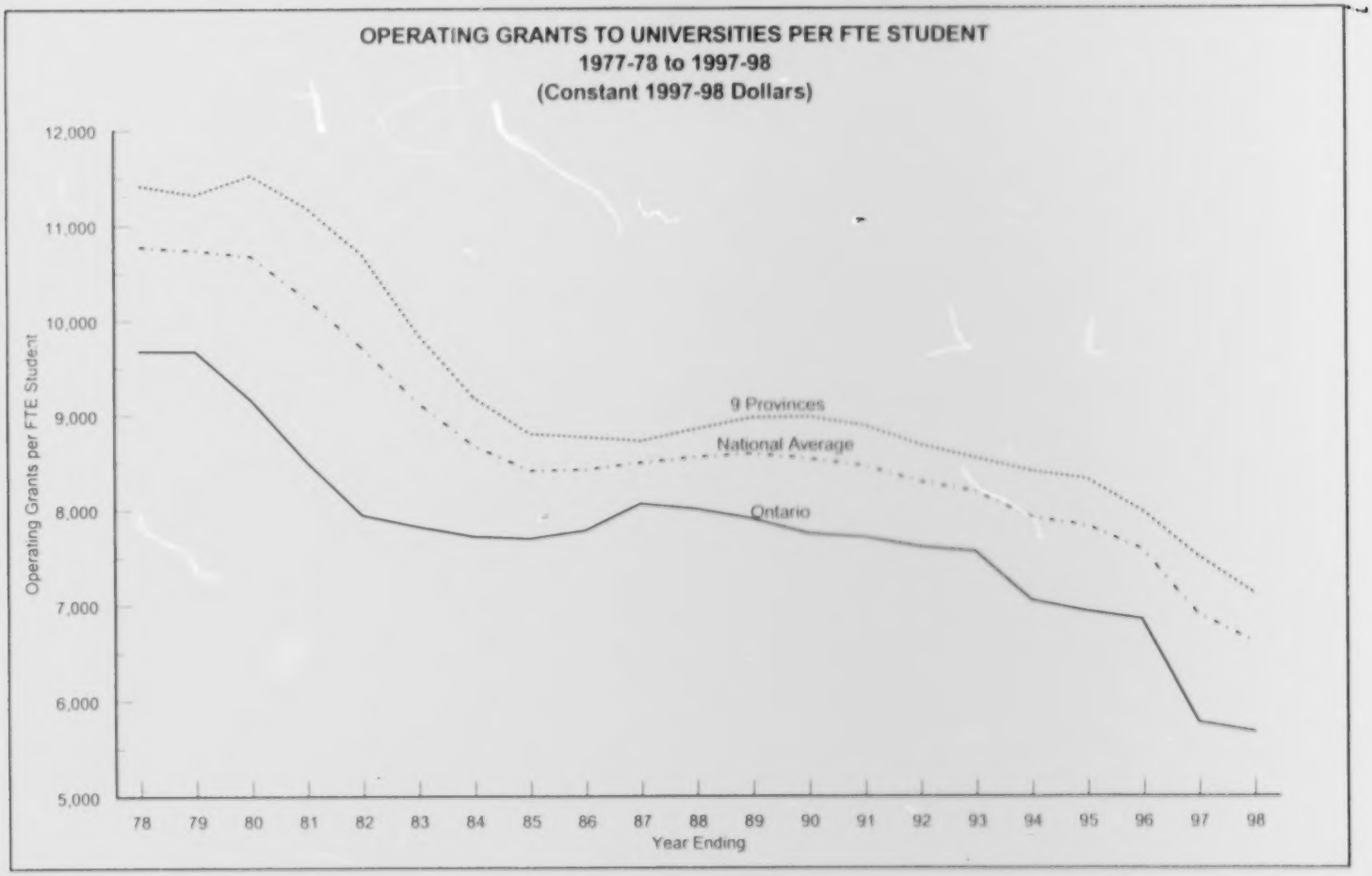
OPERATING GRANTS TO UNIVERSITIES PER FTE STUDENT
1977-78 to 1997-98
(Constant 1997-98 Dollars)
Operating Grants per FTE Student
12,000
11,000
10,000
9,000
8,000
7,000
6,000
5,000
9 Provinces
National Average
Ontario
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
Year Ending

TABLE 8

INTERPROVINCIAL COMPARISONS OF OPERATING GRANTS TO UNIVERSITIES PER FTE STUDENT 1977-78 TO 1997-98

	1977 -78	1978 -79	1979 -80	1980 -81	1981 -82	1982 -83	1983 -84	1984 -85	1985 -86	1986 -87	1987 -88	1988 -89	1989 -90	1990 -91e	1991 -92e	1992 -93e	1993 -94e	1994 -95e	1995 -96e	1996 -97e	1997 -98e
British Columbia	4,410 (4)	4,903 (3)	5,204 (4)	5,528 (4)	6,217 (2)	6,193 (3)	5,873 (4)	5,810 (4)	5,784 (7)	5,988 (8)	6,384 (8)	6,439 (8)	7,076 (7)	7,485 (6)	7,804 (5)	7,867 (5)	8,022 (3)	8,216 (3)	8,062 (4)	7,882 (3)	7,882 (1)
Alberta	4,797 (1)	5,340 (2)	5,815 (2)	6,284 (1)	6,812 (1)	7,328 (1)	7,182 (2)	7,114 (1)	7,264 (1)	7,389 (1)	7,158 (2)	7,364 (3)	7,493 (4)	7,618 (5)	7,873 (4)	7,955 (3)	7,795 (5)	7,203 (5)	6,709 (8)	6,225 (8)	6,334 (8)
Saskatchewan	4,108 (5)	4,616 (5)	5,098 (5)	5,304 (5)	5,619 (5)	6,149 (4)	6,235 (3)	6,361 (3)	6,686 (3)	6,623 (3)	6,748 (6)	7,011 (6)	7,215 (6)	7,194 (7)	7,528 (7)	7,189 (7)	7,110 (7)	6,851 (7)	6,749 (6)	6,754 (7)	6,754 (6)
Manitoba	3,874 (7)	4,124 (7)	4,771 (6)	4,499 (7)	5,062 (7)	5,362 (7)	5,582 (6)	5,704 (5)	6,073 (4)	6,336 (5)	6,804 (4)	7,150 (5)	7,483 (5)	7,671 (4)	7,589 (6)	7,686 (6)	7,737 (6)	7,056 (6)	7,704 (5)	7,061 (5)	6,885 (5)
Quebec	4,449 (3)	4,657 (4)	5,299 (3)	5,935 (2)	6,176 (3)	5,915 (5)	5,713 (5)	5,613 (6)	5,936 (5)	6,193 (6)	6,797 (5)	7,340 (4)	7,827 (3)	8,273 (2)	8,446 (1)	8,429 (2)	8,393 (2)	8,596 (2)	8,388 (2)	8,076 (2)	7,503 (4)
New Brunswick	3,905 (6)	4,364 (6)	4,755 (7)	4,915 (6)	5,185 (6)	5,426 (6)	5,274 (8)	5,561 (8)	5,779 (8)	6,090 (7)	6,428 (7)	6,664 (7)	6,908 (8)	7,162 (8)	6,861 (9)	6,534 (9)	6,593 (9)	6,630 (8)	6,733 (7)	6,813 (6)	6,650 (7)
Nova Scotia	3,476 (9)	3,802 (9)	4,042 (10)	4,340 (9)	4,996 (8)	5,141 (9)	5,158 (9)	5,389 (9)	5,537 (9)	5,820 (10)	5,971 (10)	6,276 (9)	6,305 (10)	6,381 (10)	6,117 (10)	6,027 (10)	5,935 (10)	5,718 (10)	5,688 (10)	5,238 (10)	5,123 (10)
Prince Edward Island	3,030 (10)	3,544 (10)	4,246 (8)	4,430 (8)	4,909 (9)	5,312 (8)	5,377 (7)	5,569 (7)	5,855 (6)	6,609 (4)	6,907 (3)	7,771 (2)	8,083 (2)	8,219 (3)	8,008 (3)	7,907 (4)	7,919 (4)	7,927 (4)	8,318 (3)	8,135 (1)	7,647 (2)
Newfoundland	4,625 (2)	5,485 (1)	5,994 (1)	5,684 (3)	5,847 (4)	6,912 (2)	7,788 (1)	6,994 (2)	6,761 (2)	6,999 (2)	7,460 (1)	8,233 (1)	8,668 (1)	8,641 (1)	8,389 (2)	8,995 (1)	8,719 (1)	8,878 (1)	8,399 (1)	7,800 (4)	7,566 (3)
9 Provinces	4,329	4,686	5,209	5,618	6,024	6,072	5,950	5,923	6,144	6,372	6,742	7,119	7,503	7,805	7,932	7,932	7,903	7,874	7,707	7,376	7,115
Difference from Ontario	660	684	1,070	1,345	1,549	1,252	949	744	694	487	645	848	1,029	1,033	984	918	1,278	1,318	1,101	1,704	1,443
Ontario	3,669 (8)	4,002 (8)	4,140 (9)	4,273 (10)	4,475 (10)	4,821 (10)	5,000 (10)	5,180 (10)	5,450 (10)	5,885 (9)	6,097 (9)	6,271 (10)	6,474 (9)	6,772 (9)	6,949 (8)	7,014 (8)	6,625 (8)	6,556 (9)	6,606 (9)	5,672 (9)	5,672 (9)
Canada	4,086	4,443	4,826	5,138	5,471	5,628	5,619	5,662	5,901	6,201	6,514	6,816	7,133	7,431	7,575	7,602	7,447	7,405	7,317	6,778	6,609
Difference from Ontario	416	441	686	865	995	807	619	483	452	317	417	544	659	660	627	588	821	849	711	1,106	937

e = Estimates of operating grants: The operating grants reported in the Financial Reports of the Canadian Association of Business Officers were used to estimate the year-by-year percentage changes from 1990-91 to 1995-96. The 1996-97 and 1997-98 estimates of percentage changes were from government announcements provided by the Association of Universities and Colleges of Canada. For a more complete description and example of the methodology, please refer to Appendix A.

Source: Tripartite Committee on Interprovincial Comparisons, April 1992.
Canadian Association of University Business Officers.
Statistics Canada.

FIGURE 7

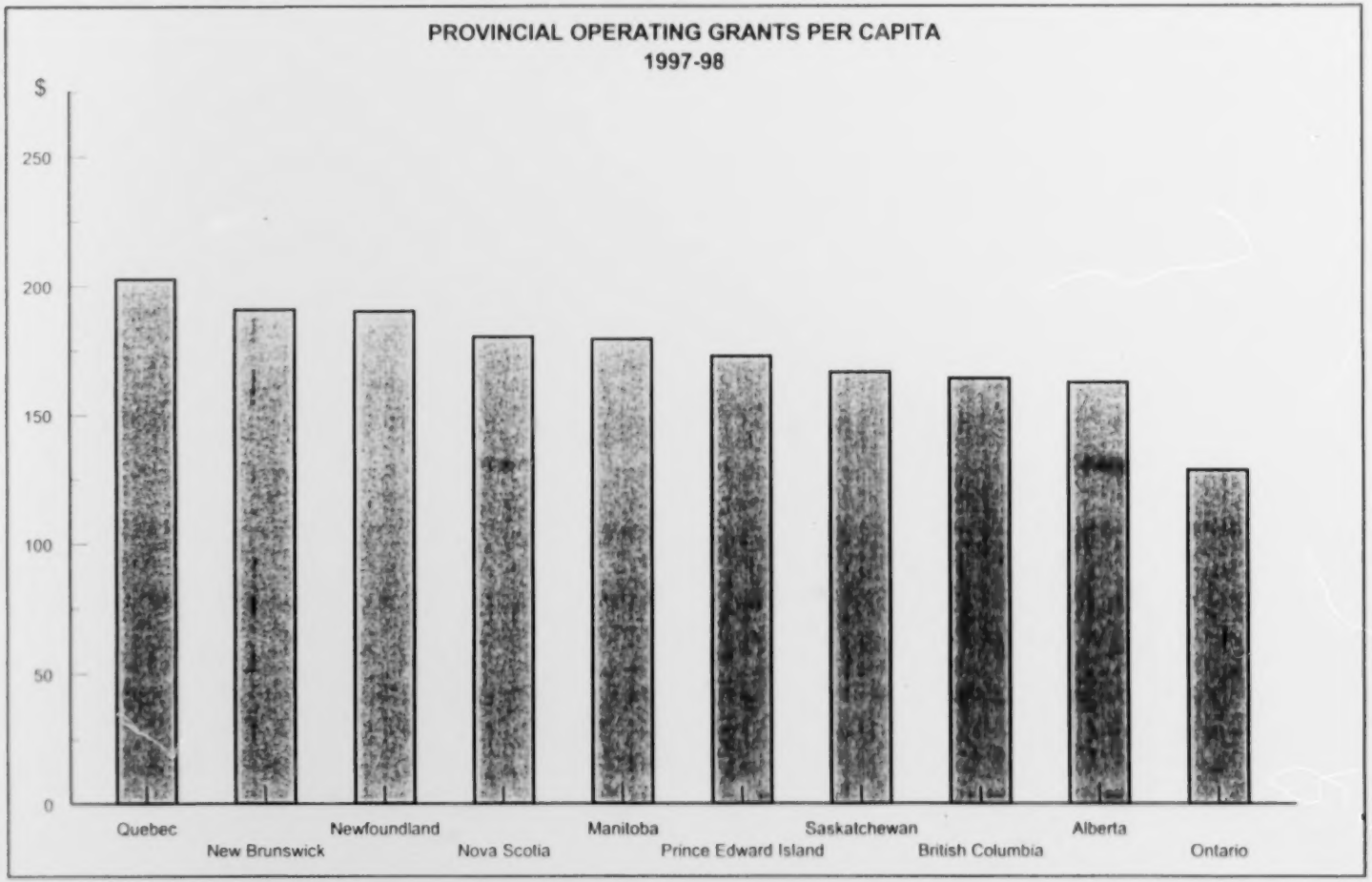
PROVINCIAL OPERATING GRANTS PER CAPITA
1997-98
$
250
200
150
100
50
0
Quebec
New Brunswick
Newfoundland
Nova Scotia
Manitoba
Prince Edward Island
Saskatchewan
British Columbia
Alberta
Ontario

TABLE 9

PROVINCIAL OPERATING GRANTS PER CAPITA
$

	1977 -78	1978 -79	1979 -80	1980 -81	1981 -82	1982 -83	1983 -84	1984 -85	1985 -86	1986 -87	1987 -88	1988 -89	1989 -90	1990 -91e	1991 -92e	1992 -93e	1993 -94e	1994 -95e	1995 -96e	1996 -97e	1997 -98e	Rank 97-98
British Columbia	81.97	89.53	93.81	100.49	113.36	119.44	116.72	109.88	105.62	108.00	117.53	124.73	141.67	152.76	164.92	167.13	164.39	170.49	169.13	165.08	163.96	(8)
Alberta	103.15	107.93	112.85	117.74	130.91	153.28	161.91	170.83	173.31	180.19	175.92	184.49	192.10	195.08	198.24	203.38	144.83	179.77	169.03	161.75	162.35	(9)
Saskatchewan	80.60	87.51	93.18	98.93	111.82	123.03	128.19	132.19	137.68	141.23	140.70	149.00	158.92	166.27	179.39	176.19	171.47	164.83	164.34	163.39	166.39	(7)
Manitoba	87.48	87.61	98.50	99.41	113.73	132.72	145.66	147.01	151.63	155.65	162.81	169.88	180.10	186.78	191.57	194.17	191.64	184.57	187.09	182.83	179.25	(5)
Quebec	93.22	105.28	119.55	139.43	151.97	152.55	153.86	152.63	164.49	171.99	189.10	207.23	222.99	237.19	247.44	252.84	251.10	250.08	236.83	220.77	202.62	(1)
New Brunswick	76.36	83.19	89.54	96.58	106.65	120.02	125.10	131.50	139.52	147.70	158.83	167.59	179.24	192.30	195.30	194.45	198.76	198.95	200.38	195.38	190.91	(2)
Nova Scotia	91.02	97.90	101.85	113.28	127.79	140.28	148.67	156.53	163.70	169.68	179.25	191.54	201.55	212.32	213.88	214.30	212.63	202.41	198.52	183.64	180.14	(4)
Prince Edward Island	62.82	67.05	75.86	80.96	88.24	101.57	107.03	112.34	121.03	138.85	155.22	170.99	185.54	203.89	205.30	208.78	201.66	186.02	182.91	180.64	172.71	(6)
Newfoundland	76.43	82.02	91.23	97.21	109.58	120.35	125.24	127.80	137.20	152.02	163.95	185.53	200.03	213.94	213.48	231.99	220.50	225.94	214.89	199.75	190.06	(3)
9 Provinces	89.64	98.05	107.44	119.12	131.82	140.03	143.36	144.03	150.18	156.46	166.43	179.12	192.59	203.34	211.42	215.25	201.26	208.96	201.26	191.04	182.97	
Difference from Ontario	10.51	15.75	22.23	28.78	33.30	29.37	27.68	22.49	23.61	19.87	23.44	28.60	35.03	35.65	34.51	36.27	36.10	48.86	44.09	59.75	54.59	
Ontario	79.13	82.30	85.21	90.34	98.53	110.66	115.68	121.54	126.57	136.59	142.99	150.52	157.56	167.69	176.90	178.97	165.16	160.11	157.17	131.29	128.39	(10)
(Rank)	(7)	(8)	(9)	(9)	(9)	(9)	(9)	(8)	(8)	(9)	(8)	(8)	(9)	(8)	(9)	(8)	(10)	(10)	(10)	(10)	(10)	
Canada	85.87	92.39	99.46	108.82	119.97	129.57	133.46	135.95	141.66	149.25	157.86	168.58	179.56	190.03	198.52	201.67	188.18	190.64	184.69	168.53	162.21	
Difference from Ontario	6.74	10.09	14.25	18.49	21.44	18.91	17.78	14.41	15.09	12.66	14.86	18.05	22.00	22.34	21.62	22.70	23.02	30.53	27.52	37.24	33.83	

e = Estimates of operating grants: The operating grants reported in the Financial Reports of the Canadian Association of Business Officers were used to estimate the year-by-year percentage changes from 1990-91 to 1995-96. The 1996-97 and 1997-98 estimates of percentage changes were from government announcements provided by the Association of Universities and Colleges of Canada. For a more complete description and example of the methodology that applies to the calculation of the operating grants, please refer to Appendix A.

Source: Tripartite Committee on Interprovincial Comparisons, April 1992.
Canadian Association of University Business Officers.
Statistics Canada.

FIGURE 8

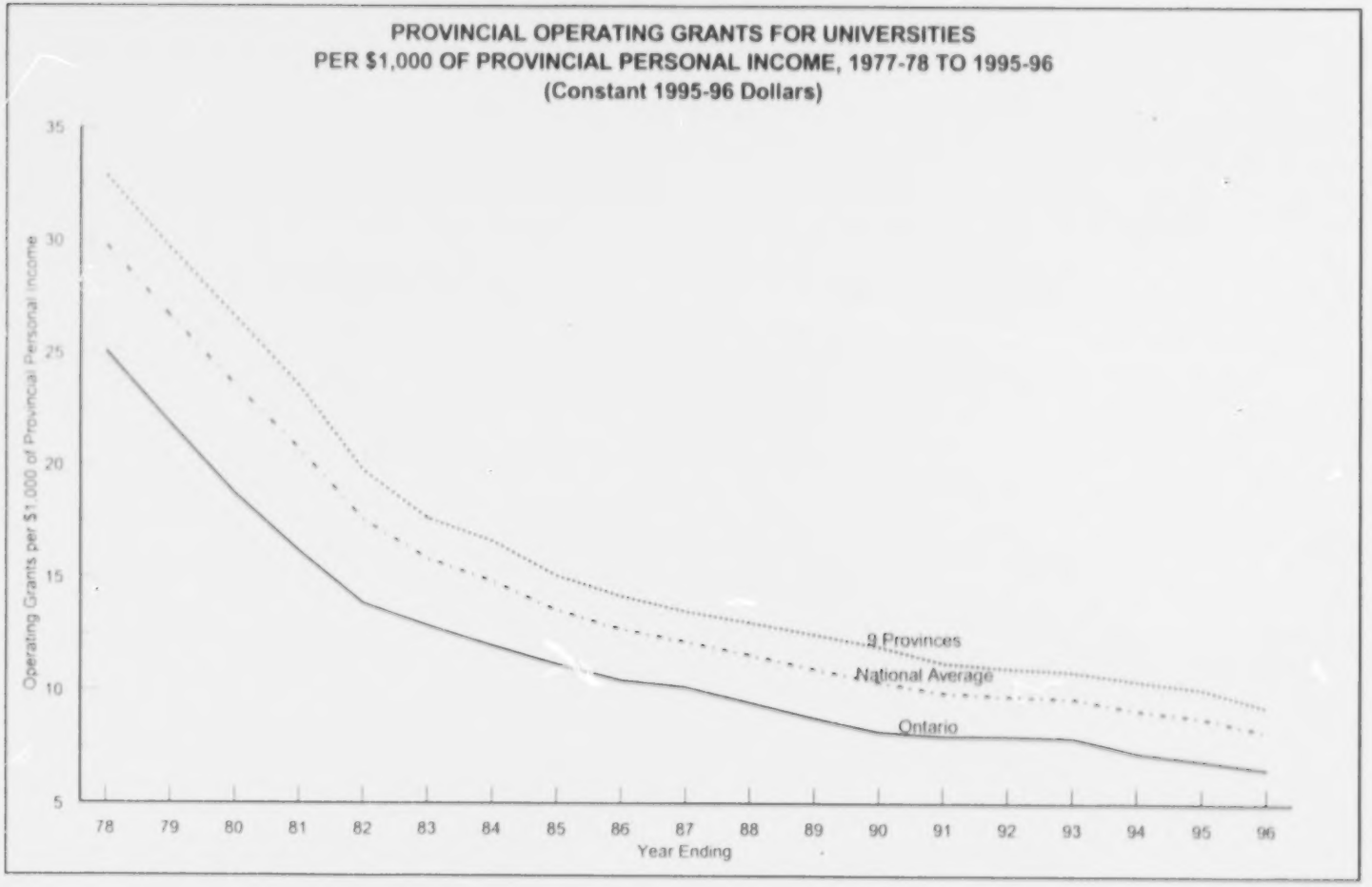
PROVINCIAL OPERATING GRANTS FOR UNIVERSITIES
PER $1,000 OF PROVINCIAL PERSONAL INCOME, 1977-78 TO 1995-96
(Constant 1995-96 Dollars)
Operating Grants per $1,000 of Provincial Personal Income
35
30
25
20
15
10
5
9 Provinces
National Average
Ontario
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
Year Ending

TABLE 10

PROVINCIAL OPERATING GRANTS FOR UNIVERSITIES
PER $1,000 OF PROVINCIAL PERSONAL INCOME

	1977 -78	1978 -79	1979 -80	1980 -81	1981 -82	1982 -83	1983 -84	1984 -85	1985 -86	1986 -87	1987 -88	1988 -89	1989 -90	1990 -91e	1991 -92e	1992 -93e	1993 -94e	1994 -95e	1995 -96e	Rank 1995-96
British Columbia	$10.23	$10.10	$9.50	$8.92	$8.62	$8.50	$8.13	$7.39	$6.77	$6.67	$6.83	$6.70	$7.00	$7.02	$7.44	$7.42	$7.17	$7.28	$7.04	(9)
Alberta	13.83	12.68	11.57	10.50	9.57	10.31	10.78	11.06	10.27	10.56	10.02	9.61	9.55	9.11	9.05	9.19	8.81	7.93	7.30	(8)
Saskatchewan	12.49	12.03	11.59	11.18	9.69	10.00	10.35	10.33	10.35	9.61	9.59	9.72	9.56	9.34	10.04	9.70	9.20	8.86	8.47	(7)
Manitoba	13.18	11.87	12.17	11.19	10.58	11.16	12.03	10.85	10.54	10.41	10.26	10.06	10.06	9.80	10.01	9.86	9.71	9.12	9.00	(6)
Quebec	13.35	13.66	13.90	14.34	13.88	12.82	12.36	11.23	11.36	11.21	11.53	11.77	11.91	11.89	12.13	12.25	12.12	11.95	11.08	(2)
New Brunswick	14.06	13.93	13.64	13.31	12.24	12.27	11.97	11.76	11.75	11.50	11.54	11.30	11.38	11.55	11.33	10.93	11.01	11.01	10.85	(3)
Nova Scotia	15.71	15.12	14.27	14.58	13.64	13.55	13.37	12.98	12.51	12.35	12.16	12.21	12.08	11.97	11.69	11.54	11.30	10.76	10.40	(4)
Prince Edward Island	12.14	11.27	11.68	11.43	10.88	11.04	10.70	10.72	11.02	11.29	11.85	11.86	12.30	12.63	12.16	12.06	11.29	10.48	9.59	(5)
Newfoundland	14.70	14.57	14.40	14.20	13.50	13.23	13.15	12.81	12.75	13.12	12.79	13.28	13.36	13.25	12.71	13.54	12.74	12.84	12.05	(1)
9 Provinces	12.91	12.69	12.44	12.22	11.51	11.25	11.15	10.51	10.28	10.20	10.26	10.25	10.33	10.21	10.39	10.42	10.16	9.87	9.29	
Ontario	9.83	9.35	8.75	8.39	8.07	8.20	8.02	7.77	7.56	7.65	7.45	7.20	7.05	7.25	7.54	7.59	7.05	6.77	6.54	(10)
(Rank)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(10)	(10)	(10)	
Canada	11.70	11.39	11.01	10.76	10.24	10.11	9.95	9.44	9.21	9.19	9.12	8.99	8.97	9.00	9.23	9.27	8.91	8.63	8.19	

e = Estimates of operating grants: The operating grants reported in the Financial Reports of the Canadian Association of Business Officers were used to estimate the year-by-year percentage changes from 1990-91 to 1995-96. The 1996-97 and 1997-98 estimates of percentage changes were from government announcements provided by the Association of Universities and Colleges of Canada. For a more complete description and example of the methodology that applies to the calculation of the operating grants, please refer to Appendix A.

Source: Tripartite Committee on Interprovincial Comparisons, April 1992.
Canadian Association of University Business Officers.
Statistics Canada.

TABLE 11

INTERPROVINCIAL COMPARISONS OF
PERCENTAGE OF UNIVERSITIES' TOTAL INCOME, 1995-96

	Provincial Government Grants		Total Fees		Federal Government Grants		Other Income		Total Income
	%	Rank	%	Rank	%	Rank	%	Rank	%
British Columbia	60.5	(6)	14.9	(9)	9.0	(3)	15.6	(3)	100.0
Alberta	59.7	(8)	17.4	(4)	10.5	(1)	12.4	(8)	100.0
Saskatchewan	60.7	(5)	16.4	(6)	8.2	(6)	14.7	(5)	100.0
Manitoba	60.7	(4)	17.2	(5)	7.0	(8)	15.1	(4)	100.0
Quebec	72.3	(1)	11.8	(10)	8.8	(5)	7.1	(9)	100.0
New Brunswick	59.7	(7)	18.9	(3)	6.7	(9)	14.7	(6)	100.0
Nova Scotia	52.5	(10)	24.2	(1)	8.8	(4)	14.5	(7)	100.0
Prince Edward Island	66.8	(3)	15.7	(7)	1.7	(10)	15.9	(2)	100.0
Newfoundland	71.1	(2)	15.4	(8)	9.3	(2)	4.1	(10)	100.0
9 Provinces	65.0	-	15.1	-	8.8	-	11.2	-	100.0
Ontario	55.1	(9)	19.7	(2)	7.9	(7)	17.3	(1)	100.0
Canada	61.2	-	16.8	-	8.5	-	13.5	-	100.0

Source: Canadian Association of University Business Officers, Financial Statistics of Universities and Colleges 1995-96

FIGURE 9

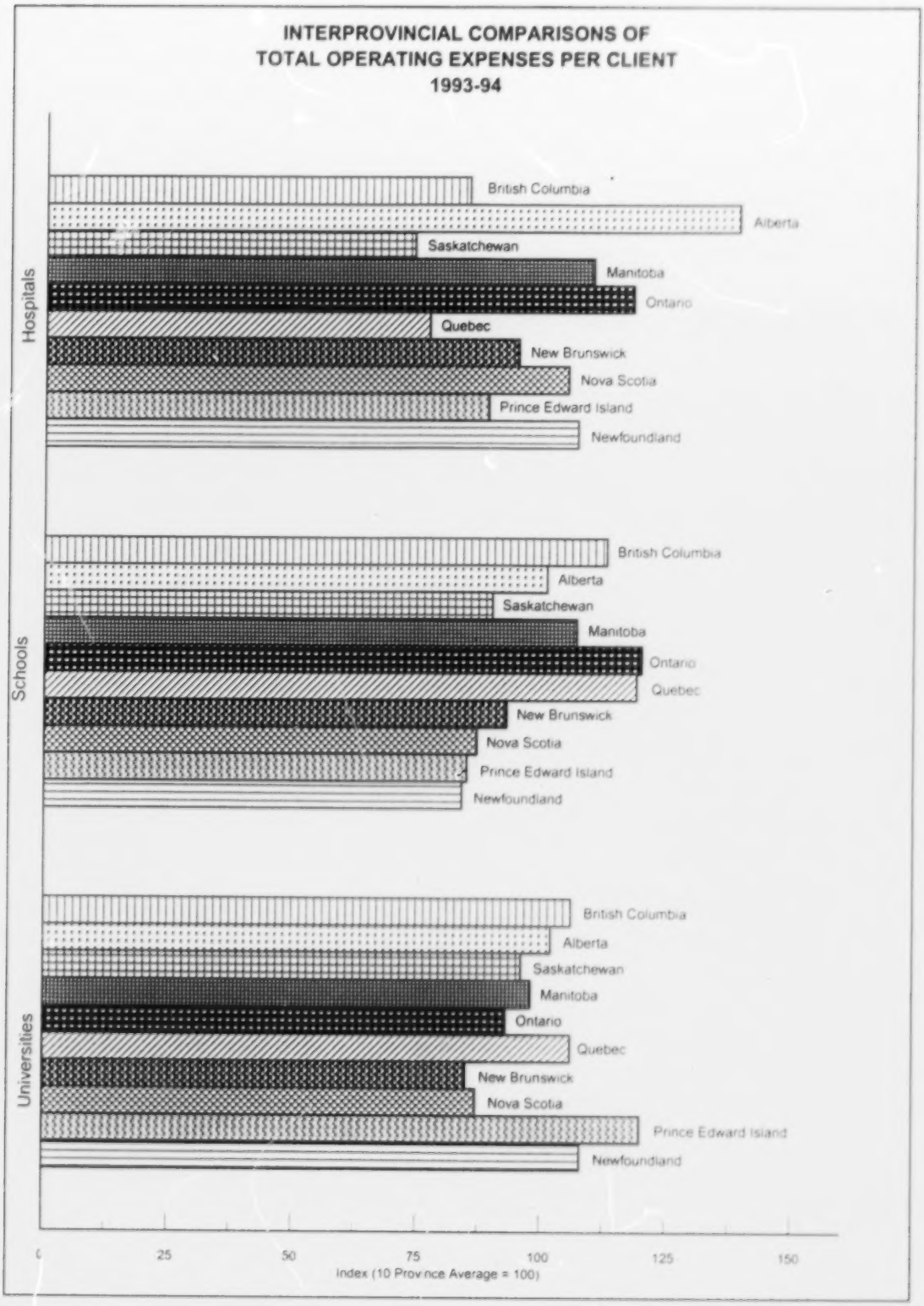
INTERPROVINCIAL COMPARISONS OF
TOTAL OPERATING EXPENSES PER CLIENT
1993-94
Hospitals
British Columbia
Alberta
Saskatchewan
Manitoba
Ontario
Quebec
New Brunswick
Nova Scotia
Prince Edward Island
Newfoundland
Schools
British Columbia
Alberta
Saskatchewan
Manitoba
Ontario
Quebec
New Brunswick
Nova Scotia
Prince Edward Island
Newfoundland
Universities
British Columbia
Alberta
Saskatchewan
Manitoba
Ontario
Quebec
New Brunswick
Nova Scotia
Prince Edward Island
Newfoundland
0
25
50
75
100
125
150
Index (10 Province Average = 100)

TABLE 12

INTERPROVINCIAL COMPARISONS OF TOTAL OPERATING EXPENSES PER CLIENT

	HOSPITALS		SCHOOLS		UNIVERSITIES	
	Total Operating Expenses Per Patient Day 1993-94		School Board Expenditures Per Student 1993-94		Total Operating Expenditures Per Student 1993-94(e)	
British Columbia	500.84	(8)	6,839	(3)	10,860	(4)
Alberta	816.35	(1)	6,158	(5)	10,475	(5)
Saskatchewan	436.34	(10)	5,490	(7)	9,883	(7)
Manitoba	649.35	(3)	6,481	(4)	10,107	(6)
Ontario	696.75	(2)	7,306	(1)	9,538	(8)
Quebec	455.71	(9)	7,202	(2)	10,878	(3)
New Brunswick	556.71	(6)	5,668	(6)	8,761	(10)
Nova Scotia	619.00	(5)	5,260	(8)	8,949	(9)
P.E.I.	523.43	(7)	5,181	(9)	12,367	(1)
Newfoundland	629.35	(4)	5,102	(10)	11,078	(2)

(e) = Estimates of operating expenditures: The operating expenditures reported in the Financial Reports of the Canadian Association of Business Officers were used to estimate the year-by-year percentage changes from 1990-91 to 1993-94. Estimates of enrolment: Year-by-year percentage changes were calculated from 1990-91 to 1993-94 from Statistics Canada data. For a more complete description and example of the methodology that applies to the calculation of the operating expenditures, please refer to Appendix B

Source: Statistics Canada 83-246, Hospital Indicators
Statistics Canada 81-208
Statistics Canada 81-003
Tripartite Committee on Interprovincial Comparisons, Interprovincial Comparisons of University Financing

TABLE 13

SOCIAL WELFARE BENEFITS BY PROVINCE, 1995

	Single Employable		Disabled Person		Single Parent One Child		Couple Two Children	
	$	Rank	$	Rank	$	Rank	$	Rank
British Columbia	6,637	(2)	9,337	(2)	11,964	(2)	15,258	(4)
Alberta	4,728	(8)	6,588	(9)	9,192	(10)	14,622	(6)
Saskatchewan	5,760	(6)	8,280	(6)	10,381	(7)	14,803	(5)
Manitoba	6,458	(3)	7,997	(8)	9,636	(8)	16,774	(2)
Quebec	6,000	(4)	8,088	(7)	11,528	(3)	13,524	(7)
New Brunswick	3,096	(10)	6,408	(10)	9,476	(9)	10,608	(10)
Nova Scotia	5,904	(5)	8,568	(4)	10,560	(6)	12,472	(8)
Prince Edward Island	5,635	(7)	8,798	(3)	10,564	(5)	15,863	(3)
Newfoundland	4,326	(9)	8,310	(5)	11,262	(4)	12,186	(9)
Average 9 Provinces	5,394		8,042		10,507		14,012	
Difference from Ontario	2,503		3,424		3,799		4,410	
Ontario	7,897	(1)	11,466	(1)	14,306	(1)	18,422	(1)
Canadian Average	5,644		8,384		10,887		14,453	
Difference from Ontario	2,253		3,082		3,419		3,969	

Source: Welfare Incomes 1995, A Report by the National Council of Welfare

FIGURE 10

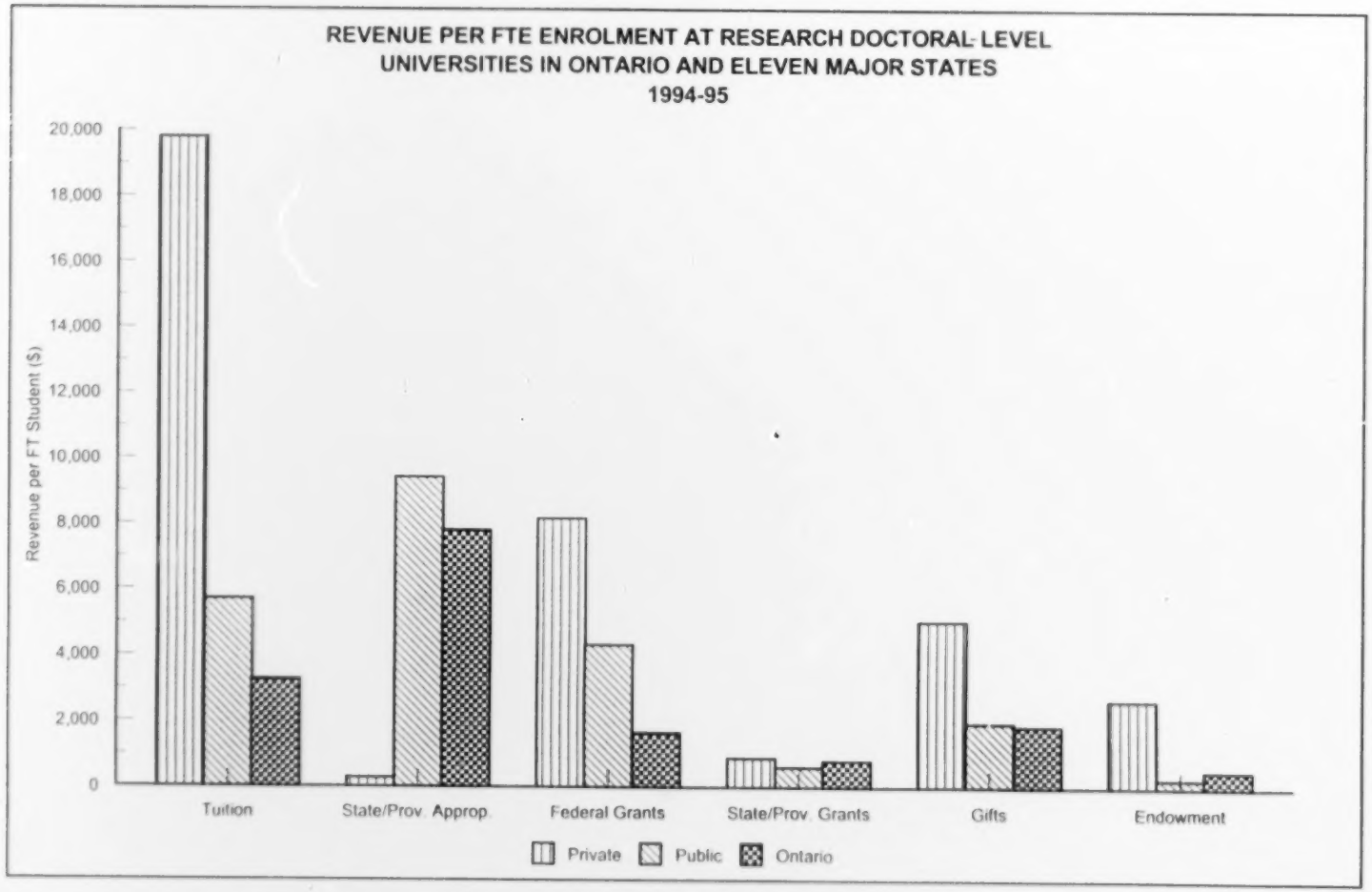
REVENUE PER FTE ENROLMENT AT RESEARCH DOCTORAL-LEVEL
UNIVERSITIES IN ONTARIO AND ELEVEN MAJOR STATES
1994-95
Revenue per FT Student ($)
20,000
18,000
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
Tuition
State/Prov. Approp.
Federal Grants
State/Prov. Grants
Gifts
Endowment
Private
Public
Ontario

TABLE 14

REVENUE PER FTE ENROLMENT AT RESEARCH DOCTORAL-LEVEL UNIVERSITIES IN ONTARIO AND ELEVEN MAJOR STATES, 1994-95
(Purchasing Power Parities $ Canadian)

Institutions	Tuition and Fees	State Government Appropriations	Federal Government Grants and Contracts	State Government Grants and Contracts	Private Gifts, Grants and Contracts	Endowment Income	Total
PUBLIC							
California	6,642	12,687	8,707	1,075	3,023	0	32,133
Florida	2,884	9,996	2,290	1,046	1,390	0	17,606
Illinois	4,590	9,230	3,398	678	1,302	43	19,242
Indiana	6,004	8,135	2,638	296	1,357	83	18,514
Michigan	8,244	9,606	5,899	361	2,578	294	26,981
Minnesota	6,514	15,715	9,087	816	7,266	377	39,776
New York	4,281	14,020	4,121	939	1,597	114	25,071
Ohio	6,388	6,644	1,858	361	1,252	279	16,782
Pennsylvania	9,329	6,768	5,674	446	2,044	457	24,718
Texas	3,538	7,726	2,353	431	1,173	801	16,021
Wisconsin	5,837	10,911	7,158	124	3,285	359	27,674
AVERAGE	**5,703**	**9,420**	**4,304**	**603**	**1,950**	**262**	**22,242**
PRIVATE							
California	20,929	0	13,356	239	6,367	3,372	44,263
Florida	20,659	713	6,425	1,942	2,639	922	33,300
Illinois	19,896	0	6,455	566	4,183	2,086	33,186
Indiana	20,155	0	3,914	177	4,684	2,986	31,916
Michigan	14,902	853	1,196	1,034	2,993	164	21,142
New York	20,706	192	7,276	1,089	6,356	2,426	38,045
Ohio	18,630	691	16,350	878	6,342	3,760	46,651
Pennsylvania	21,122	1,065	11,023	1,627	3,918	2,107	40,862
Texas	12,596	0	1,907	311	1,706	5,711	22,231
Wisconsin	14,363	0	1,025	390	1,660	645	18,082
AVERAGE	**19,799**	**268**	**8,159**	**881**	**5,023**	**2,624**	**36,755**
ONTARIO							
Carleton	2,881	5,181	782	112	605	137	9,698
Guelph	3,201	8,936	2,043	2,700	1,039	486	18,405
McMaster	2,738	8,119	1,652	1,016	4,775	835	19,136
Ottawa	2,881	8,685	1,530	491	1,545	236	15,367
Queen's	3,612	9,444	2,644	2,301	2,559	848	21,409
Toronto	3,867	9,769	3,043	1,316	3,684	1,158	22,836
Waterloo	3,238	8,174	1,733	542	1,299	262	15,248
Western	3,411	7,293	1,308	146	1,349	331	13,838
Windsor	2,872	5,504	406	136	447	177	9,543
York	3,010	6,089	477	29	299	111	10,014
AVERAGE	**3,247**	**7,806**	**1,636**	**791**	**1,850**	**500**	**15,829**

Source: National Data Service for Higher Education
Council of Finance Officers - Universities of Ontario, Financial Report of Ontario Universities 1994-95.

FIGURE 11

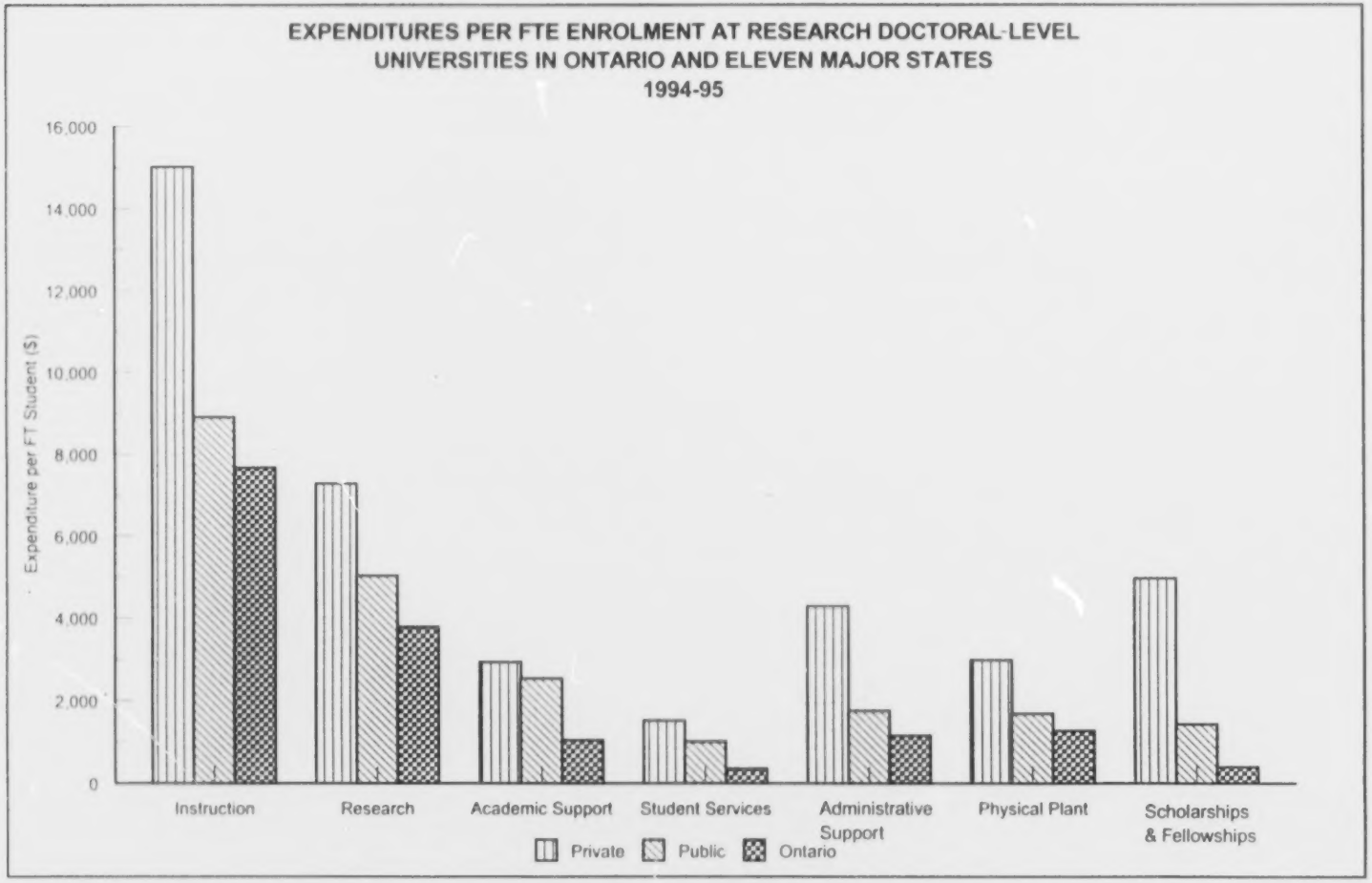
EXPENDITURES PER FTE ENROLMENT AT RESEARCH DOCTORAL-LEVEL
UNIVERSITIES IN ONTARIO AND ELEVEN MAJOR STATES
1994-95
Expenditure per FT Student ($)
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
Instruction
Research
Academic Support
Student Services
Administrative Support
Physical Plant
Scholarships & Fellowships
Private
Public
Ontario

TABLE 15

EXPENDITURES PER FTE ENROLMENT AT RESEARCH DOCTORAL-LEVEL UNIVERSITIES IN ONTARIO AND ELEVEN MAJOR STATES, 1994-95
(Purchasing Power Parities $ Canadian)

Institutions	Instruction	Research	Academic Support	Student Services	Administrative Support	Physical Plant	Scholarships and Fellowships	Total
PUBLIC								
California	12,623	9,918	5,132	1,797	2,501	1,866	2,340	36,177
Florida	7,150	4,316	1,737	813	1,580	1,192	645	17,435
Illinois	7,654	3,707	2,424	1,082	1,213	1,941	1,501	19,522
Indiana	8,226	2,593	2,224	641	1,488	1,844	1,020	18,038
Michigan	9,433	6,106	2,401	1,070	1,914	1,986	2,407	25,316
Minnesota	14,089	11,525	5,307	1,557	3,732	3,139	1,686	41,035
New York	10,380	3,539	2,007	979	2,602	2,315	1,172	22,995
Ohio	8,036	1,996	1,763	864	1,278	1,208	1,166	16,311
Pennsylvania	9,267	5,733	2,841	1,124	2,296	1,873	1,347	24,482
Texas	6,840	3,367	1,239	484	1,251	1,318	1,063	15,563
Wisconsin	8,599	9,561	2,695	1,315	1,273	1,932	1,443	26,818
AVERAGE	**8,909**	**5,031**	**2,531**	**1,013**	**1,752**	**1,690**	**1,431**	**22,357**
PRIVATE								
California	15,245	11,603	3,916	1,888	5,456	3,211	5,702	47,021
Florida	13,692	5,005	2,642	1,399	3,250	2,143	3,891	32,021
Illinois	20,297	5,878	2,220	1,434	4,358	3,056	5,174	42,416
Indiana	11,746	3,040	2,566	1,368	4,162	2,382	5,328	30,592
Michigan	7,296	612	3,816	1,194	2,993	1,487	4,267	21,665
New York	15,186	6,736	2,399	1,497	4,182	3,230	5,045	38,275
Ohio	13,152	15,249	3,981	1,593	3,686	3,858	5,005	46,525
Pennsylvania	16,058	9,825	4,159	1,463	4,663	3,567	5,170	44,904
Texas	9,593	1,787	2,19[illegible]	1,281	2,820	1,658	3,498	22,828
Wisconsin	7,327	595	2,566	1,169	3,338	1,185	3,305	19,484
AVERAGE	**15,016**	**7,274**	**2,932**	**1,521**	**4,290**	**2,982**	**4,970**	**38,984**
ONTARIO								
Carleton	5,543	1,371	764	270	807	905	220	9,879
Guelph	8,502	5,503	831	456	1,167	1,510	265	18,233
McMaster	8,647	6,931	1,089	363	1,126	1,446	416	20,020
Ottawa	7,805	3,262	1,077	267	1,201	1,477	333	15,422
Queen's	10,328	6,276	1,204	523	1,021	1,335	924	21,611
Toronto	9,389	7,041	1,453	356	1,251	1,613	655	21,758
Waterloo	7,378	3,209	994	470	1,213	1,401	334	15,000
Western	7,696	2,383	1,046	415	1,332	1,002	360	14,234
Windsor	5,248	905	791	427	861	1,129	125	9,486
York	5,718	636	769	221	1,224	944	166	9,678
AVERAGE	**7,667**	**3,789**	**1,041**	**358**	**1,155**	**1,276**	**394**	**15,679**

Source: National Data Service for Higher Education
Council of Finance Officers - Universities of Ontario, Financial Report of Ontario Universities 1994-95.

TABLE 16

TWO-YEAR CHANGE IN STATE GOVERNMENT APPROPRIATIONS
AND PROVINCIAL GOVERNMENT GRANTS TO UNIVERSITIES
1995-96 TO 1997-98

Rank	State	% Increase or Decrease	Rank	State	% Increase or Decrease
	United States			United States (cont'd)	
1	Nevada	+ 30	33	Kansas	+ 7
2	California	+ 24	34	Maryland	+ 7
3	Florida	+ 23	35	New Hampshire	+ 7
4	Louisiana	+ 22	36	Kentucky	+ 6
5	Oklahoma	+ 21	37	Pennsylvania	+ 5
6	Massachusetts	+ 18	38	Maine	+ 4
7	Virginia	+ 18	39	New Mexico	+ 4
8	Oregon	+ 17	40	Vermont	+ 4
9	Missouri	+ 16	41	Wyoming	+ 4
10	Georgia	+ 14	42	Montana	+ 3
11	North Carolina	+ 14	43	South Dakota	+ 3
12	Arizona	+ 13	44	Wisconsin	+ 3
13	Illinois	+ 13	45	Alabama	+ 2
14	Arkansas	+ 12	46	New York	+ 1
15	Colorado	+ 12	47	New Jersey	0
16	Indiana	+ 12	48	Tennessee	0
17	North Dakota	+ 12	49	Alaska	- 3
18	Ohio	+ 12	50	Hawaii	- 3
19	Utah	+ 12			
20	Minnesota	+ 11		Canada	
21	Washington	+ 11			
22	Iowa	+ 10	1	British Columbia	0.0
23	Mississippi	+ 10	2	Saskatchewan	0.0
24	South Carolina	+ 10	3	Alberta	- 1.3
25	Connecticut	+ 9	4	Manitoba	- 4.2
26	Michigan	+ 9	5	New Brunswick	- 4.5
27	Rhode Island	+ 9	6	Prince Edward Island	- 6.0
28	Texas	+ 9	7	Nova Scotia	- 9.0
29	Delaware	+ 8	8	Newfoundland	- 10.8
30	Nebraska	+ 8	9	Quebec	- 12.9
31	West Virginia	+ 8	10	Ontario	- 15.3
32	Idaho	+ 7			

Source: The Chronicle of Higher Education, Nov. 14, 1997.
From government announcements provided by the Association of Universities and Colleges of Canada.

TABLE 17

GROSS DOMESTIC EXPENDITURES ON
RESEARCH AND EXPERIMENTAL DEVELOPMENT (GERD)
(Most Recent Data)

		GERD per Capita (Purchasing Power Parities $ U.S.)	GERD as Percentage of GDP	Percentage of GERD Performed by Higher Education Sector	GERD Performed by Higher Education Sector as Percentage of GDP
		$	%	%	%
Canada	(1995)	319.10	1.53	24.30	0.37
U.S.	(1995)	649.20	2.45	15.40	0.38
Australia	(1992)	267.10	1.58	26.60	0.42
Japan	(1994)	601.50	2.90	20.20	0.59
France	(1994)	456.70 *	2.38	15.90	0.38
Germany	(1995)	459.40 **	2.27	18.90	0.43
Italy	(1995)	221.90 **	1.13	20.90	0.24
U.K.	(1994)	387.10	2.19	17.50	0.38
Sweden	(1995)	553.80 *	3.05	24.50 *	0.75

* 1993 data
** 1994 data

Source: OECD, Main Science and Technology Indicators 1996:1, 1996

TABLE 18

COSTS OF SPONSORED RESEARCH AND THE OPERATING BASE
1977-78 TO 1995-96

	Sponsored Research Expenses		Operating Expenses	
	Constant Dollars (1995-96) $000	Percentage Growth from 1977-78	Constant Dollars (1995-96) $000	Percentage Growth from 1977-78
1977-78	320,015	0.0	2,211,944	0.0
1978-79	337,317	5.4	2,128,893	-3.8
1979-80	346,958	8.4	2,058,328	-6.9
1980-81	359,618	12.4	2,008,136	-9.2
1981-82	393,645	23.0	2,011,005	-9.1
1982-83	435,173	36.0	2,079,800	-6.0
1983-84	442,900	38.4	2,153,066	-2.7
1984-85	473,342	47.9	2,181,772	-1.4
1985-86	480,359	50.1	2,235,709	1.1
1986-87	477,119	49.1	2,267,462	2.5
1987-88	500,759	56.5	2,314,187	4.6
1988-89	558,634	74.6	2,377,045	7.5
1989-90	564,993	76.6	2,460,098	11.2
1990-91	605,277	89.1	2,582,563	16.8
1991-92	613,693	91.8	2,704,506	22.3
1992-93	635,136	98.5	2,757,921	24.7
1993-94	736,404	130.1	2,673,385	20.9
1994-95	737,720	130.5	2,686,142	21.4
1995-96	716,124	123.8	2,642,506	19.5

Source: COFO-UO, Financial Report of Ontario Universities, various years.

FIGURE 12

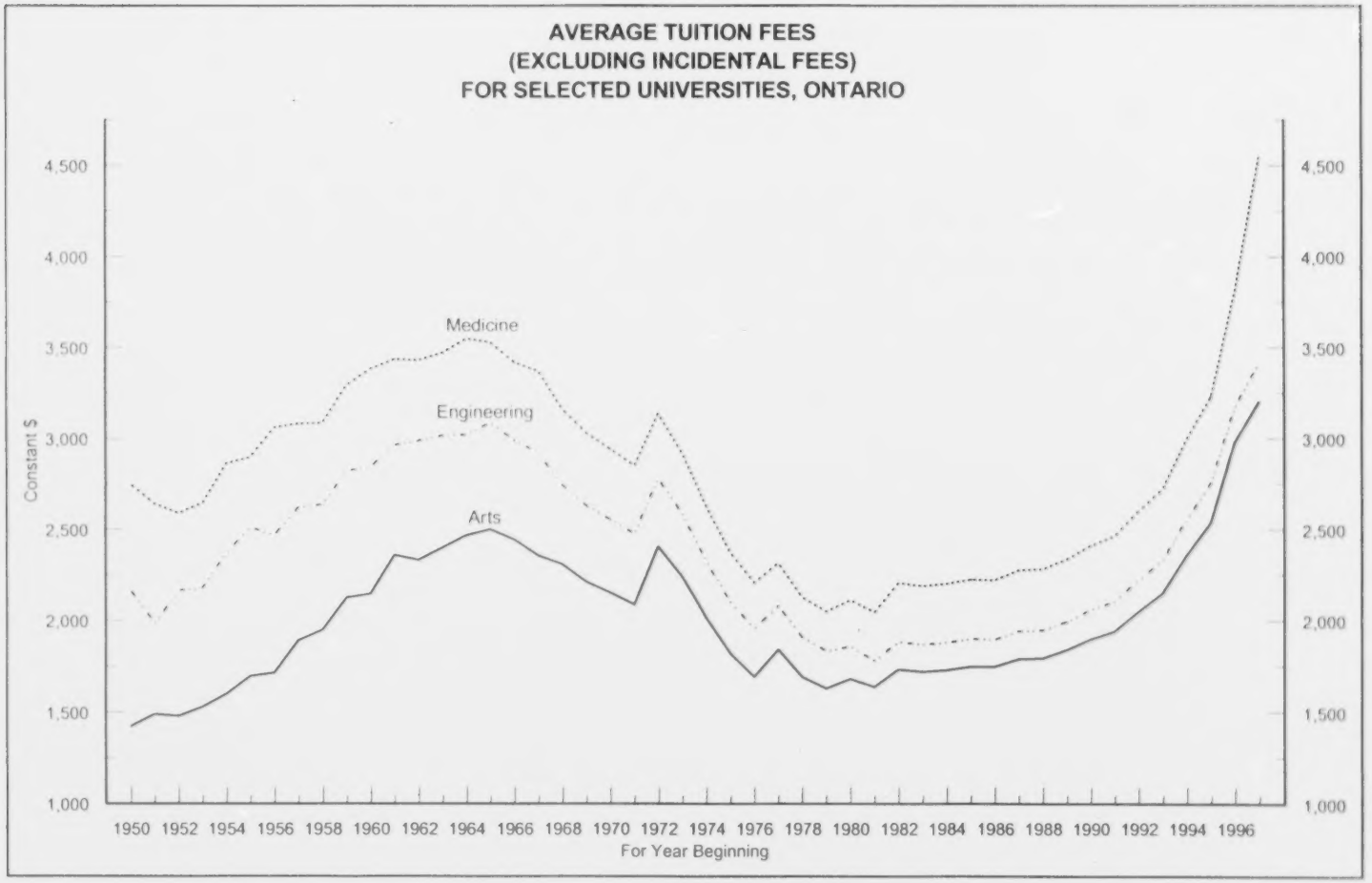
AVERAGE TUITION FEES
(EXCLUDING INCIDENTAL FEES)
FOR SELECTED UNIVERSITIES, ONTARIO
Constant $
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
Medicine
Engineering
Arts
1950 1952 1954 1956 1958 1960 1962 1964 1966 1968 1970 1972 1974 1976 1978 1980 1982 1984 1986 1988 1990 1992 1994 1996
For Year Beginning

TABLE 19

TUITION FEES (EXCLUDING INCIDENTAL FEES) IN CONSTANT DOLLARS
AVERAGE FOR SELECTED UNIVERSITIES*, ONTARIO, 1950-1997

Academic Year Beginning	Arts	Medicine	Engineering
1950	1,422	2,745	2,162
1951	1,487	2,639	1,983
1952	1,478	2,588	2,165
1953	1,527	2,645	2,178
1954	1,598	2,861	2,368
1955	1,696	2,897	2,511
1956	1,714	3,059	2,465
1957	1,891	3,080	2,620
1958	1,948	3,085	2,636
1959	2,124	3,293	2,820
1960	2,145	3,381	2,843
1961	2,357	3,434	2,964
1962	2,330	3,430	2,987
1963	2,398	3,471	3,016
1964	2,466	3,548	3,019
1965	2,499	3,527	3,085
1966	2,442	3,417	2,989
1967	2,354	3,368	2,919
1968	2,307	3,160	2,744
1969	2,211	3,029	2,630
1970	2,151	2,940	2,553
1971	2,086	2,851	2,475
1972	2,404	3,134	2,776
1973	2,238	2,917	2,584
1974	2,013	2,625	2,325
1975	1,818	2,370	2,099
1976	1,691	2,205	1,953
1977	1,840	2,314	2,080
1978	1,691	2,126	1,908
1979	1,628	2,048	1,832
1980	1,679	2,110	1,857
1981	1,635	2,043	1,779
1982	1,731	2,203	1,881
1983	1,719	2,187	1,867
1984	1,728	2,200	1,879
1985	1,747	2,224	1,899
1986	1,746	2,221	1,896
1987	1,788	2,275	1,942
1988	1,792	2,280	1,946
1989	1,837	2,335	1,993
1990	1,894	2,409	2,056
1991	1,936	2,463	2,102
1992	2,043	2,598	2,217
1993	2,146	2,720	2,329
1994	2,355	2,996	2,557
1995	2,537	3,227	2,754
1996	2,977	3,800	3,175
1997	3,201	4,541	3,417

* Selected Universities for Arts and Engineering include McMaster University, University of Ottawa, Queen's University, University of Toronto and University of Western Ontario.
Medicine includes University of Ottawa, Queen's University, University of Toronto and University of Western Ontario. McMaster University is excluded because it has a condensed three-year program, fees are based on eleven months and are not comparable to fees at the other medical schools.

Source: Tables A.2, A.3 and A.4 adjusted for constant dollars from Focus on Fees by David A. A. Stager, COU Publications, (1950 to 1988).
Statistics Canada: 81-219 Tuition and Living Accommodation Costs at Canadian Universities. (1988 to 1993)
Statistics Canada: Special run requested by COU on Tuition and Living Accommodation Costs at Canadian Universities (1994 to present)

FIGURE 13

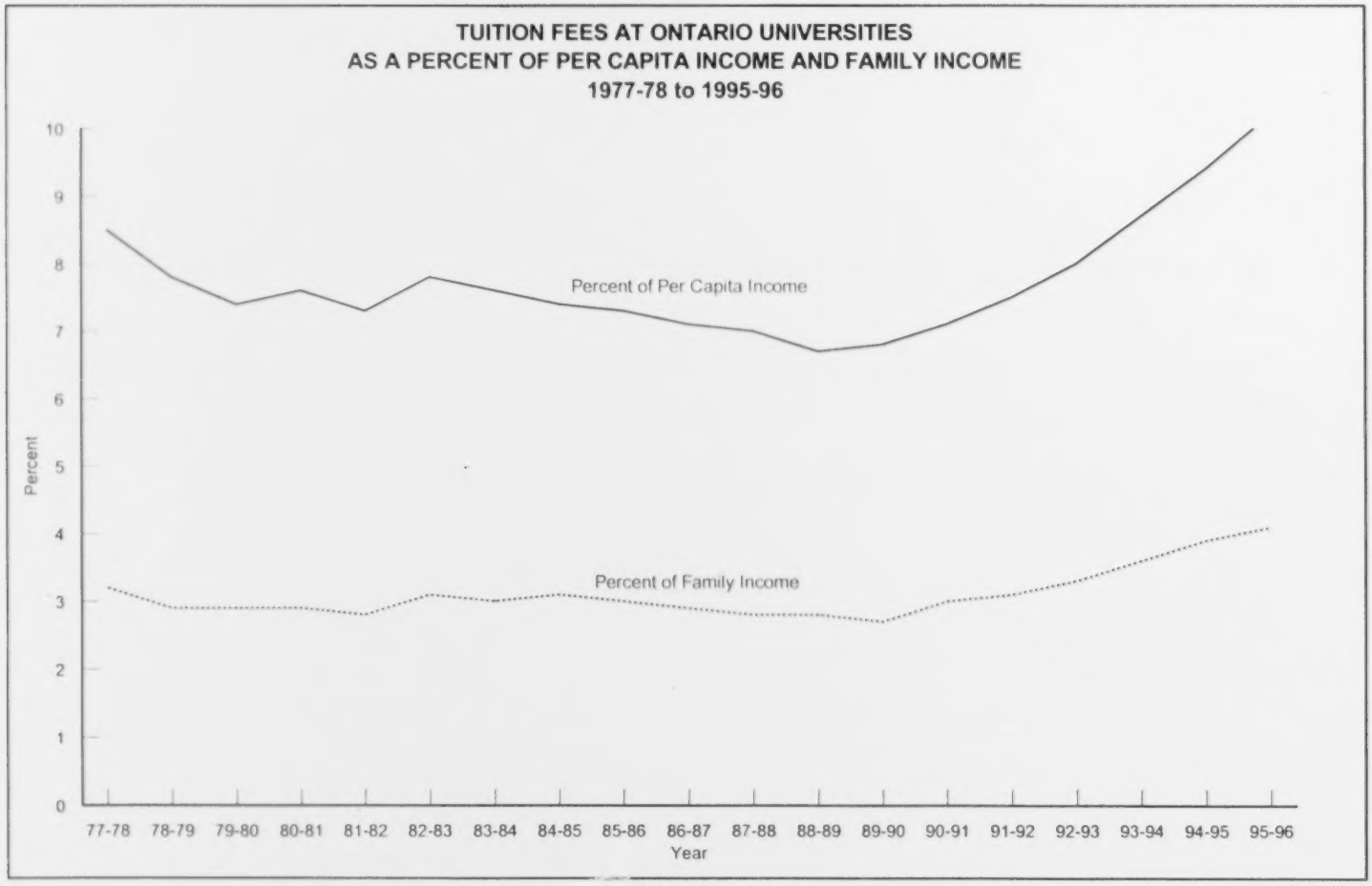
TUITION FEES AT ONTARIO UNIVERSITIES
AS A PERCENT OF PER CAPITA INCOME AND FAMILY INCOME
1977-78 to 1995-96
Percent
Year
Percent of Per Capita Income
Percent of Family Income
0
1
2
3
4
5
6
7
8
9
10
77-78
78-79
79-80
80-81
81-82
82-83
83-84
84-85
85-86
86-87
87-88
88-89
89-90
90-91
91-92
92-93
93-94
94-95
95-96

TABLE 20

MAXIMUM CHARGEABLE TUITION FEES FOR UNDERGRADUATE ARTS
AT ONTARIO UNIVERSITIES
AS A PERCENT OF PER CAPITA INCOME AND FAMILY INCOME

1977-78 TO 1995-96

	Undergraduate Formula Fee Plus Maximum Discretionary*	Per Capita Income	Percent of Per Capita Income	Family Income	Percent of Family Income
1977-78	$685	8,046.1	8.5%	$21,130	3.2%
1978-79	685	8,804.1	7.8%	23,261	2.9%
1979-80	720	9,740.7	7.4%	24,772	2.9%
1980-81	851	10,765.1	7.9%	28,270	3.0%
1981-82	936	12,207.1	7.7%	31,439	3.0%
1982-83	1,049	13,493.1	7.8%	33,716	3.1%
1983-84	1,102	14,422.4	7.6%	36,624	3.0%
1984-85	1,157	15,650.8	7.4%	37,721	3.1%
1985-86	1,216	16,737.9	7.3%	40,949	3.0%
1986-87	1,264	17,849.3	7.1%	44,098	2.9%
1987-88	1,350	19,193.1	7.0%	47,624	2.8%
1988-89	1,411	20,919.8	6.7%	51,303	2.8%
1989-90	1,518	22,333.5	6.8%	55,286	2.7%
1990-91	1,639	23,114.5	7.1%	55,293	3.0%
1991-92	1,770	23,469.8	7.5%	56,727	3.1%
1992-93	1,894	23,569.4	8.0%	57,071	3.3%
1993-94	2,026	23,412.7	8.7%	56,237	3.6%
1994-95	2,228	23,654.5	9.4%	57,482	3.9%
1995-96	2,451	24,016.1	10.2%	59,356	4.1%

* The maximum discretion was 10% of formula fee from 1980-81 to 1986-87 and 13% from 1987-88 to 1995-96.

Source: MCU Operating Grants Formula Manual, various years.
Statistics Canada. 81-219 Tuition and Living Accommodation Costs at Canadian Universities (1988 to 1993)
Statistics Canada: Special run requested by COU on Tuition and Living Accommodation Costs at Canadian Universities (1994 to present)
Statistics Canada. 13-208 Family Incomes (1977 to 1995)
Statistics Canada. 91-002 Quarterly Demographic Statistics, 1995.
Statistics Canada. Personal Income

TABLE 21

UNDERGRADUATE ARTS TUITION FEES FOR FULL-TIME STUDENTS
1987-88 AND 1997-98
SELECTED CANADIAN INSTITUTIONS

Institution	1987-88	1997-98	% Change
Memorial University *Newfoundland*	$1,108	$3,150	184%
Dalhousie University *Nova Scotia*	$1,585	$3,655	131%
Mount Allison University *New Brunswick*	$1,630	$3,850	136%
Université Laval *Quebec*	$450	$1,668	271%
McGill University *Quebec*	$570	$1,669	193%
Ontario Institutions	$1,350 *	$3,228 **	139%
University of Manitoba *Manitoba*	$975	$2,574	164%
University of Saskatchewan *Saskatchewan*	$1,185	$2,832	139%
University of Calgary *Alberta*	$944	$3,180	237%
University of British Columbia *British Columbia*	$1,380	$2,333	69%

* Average tuition fee for Ontario universities.
** Maximum chargeable tuition fee, estimated as 1996-97 formula fee rate plus the 35.3% discretion.

Source: Statistics Canada.
Ministry of Education and Training.

TABLE 22

TUITION AND FEES AT AMERICAN UNIVERSITIES
1997-98

		Tuition and Fees		Added Out of State Tuition
Ontario Universities Undergraduate Arts	$CDN	3,228 *		-
Public Universities				
U Georgia	$US	2,838	$US	5,952
U South Carolina @ Columbia	$US	3,534	$US	5,406
U California @ Berkeley	$US	4,354	$US	8,985
U California @ Los Angeles	$US	4,050	$US	8,984
U Minnesota @ Minneapolis-St. Paul	$US	4,268	$US	7,047
U Michigan @ Ann Arbor	$US	5,878	$US	12,566
State U of New York @ Buffalo	$US	4,340	$US	4,900
Private Universities				
Duke U	$US	30,725		-
Vanderbilt U	$US	29,746		-
Harvard/Radcliffe	$US	31,596		-
Stanford U	$US	29,515		-
Princeton U	$US	31,760		-
U Chicago	$US	31,145		-

* Maximum chargeable tuition fee, estimated as 1996-97 formula fee rate plus the 35.3% discretion.

Note: Figures for American universities are for tuition and required fees, and represent charges to first-time, full-time undergraduates based on a nine-month academic year of 30 semester hours or 45 quarter hours.

Source: The Annual Survey of Colleges of the College Board, 1997-98.
Ministry of Education and Training.

TABLE 23

ONTARIO GOVERNMENT STUDENT SUPPORT PROGRAM (OSAP)
(Includes Assistance for Students Attending Universities, Colleges and Private Training Schools)
1977-78 TO 1997-98

	Actual $	Constant $
1977-78	66,491,360	175,783,781
1978-79	79,841,173	193,401,676
1979-80	85,791,999	190,267,589
1980-81	89,891,758	179,423,949
1981-82	86,423,752	153,744,928
1982-83	109,483,051	178,099,568
1983-84	119,925,047	185,558,445
1984-85	126,663,413	188,671,770
1985-86	134,023,120	191,763,547
1986-87	159,205,500	218,551,704
1987-88	181,220,191	238,598,616
1988-89	185,163,933	233,915,956
1989-90	188,731,975	226,387,633
1990-91	203,434,746	232,164,524
1991-92	270,188,715	296,479,755
1992-93	327,021,357	353,211,379
1993-94 *	101,413,273	108,073,088
1994-95	139,711,970	147,939,041
1995-96	230,548,001	239,299,953
1996-97 **	327,704,527	334,235,174
1997-98 (e)**	527,783,000	527,783,000

* Policy change to discontinue grants.

** Excludes $38,896,231 in 1996-97 and $45,000,000 in 1997-98 for the Ontario Student Opportunity Trust Fund.

Source: Province of Ontario, Public Accounts, various years.
Province of Ontario, Expenditure Estimates, 1997-98.

TABLE 24

SCHOLARSHIPS AND BURSARIES AT ONTARIO UNIVERSITIES
1977-78 TO 1995-96

	Scholarships and Bursaries Actual $(000s)	Percent of Total Expenditures	Scholarships and Bursaries Constant $(000s)
1977-78	14,132	1.2	35,994
1978-79	15,782	1.3	36,831
1979-80	17,295	1.3	36,954
1980-81	20,282	1.3	39,002
1981-82	24,211	1.4	41,495
1982-83	29,502	1.5	46,237
1983-84	32,456	1.5	48,382
1984-85	35,586	1.6	51,069
1985-86	38,808	1.6	53,497
1986-87	38,989	1.5	51,565
1987-88	44,808	1.6	56,838
1988-89	45,378	1.5	55,229
1989-90	51,090	1.5	59,042
1990-91	58,636	1.5	64,469
1991-92	63,493	1.5	67,123
1992-93	71,036	1.7	73,919
1993-94	76,700	1.8	78,748
1994-95	86,232	2.0	87,970
1995-96	92,797	2.2	92,797

Source: COFO-UO, Financial Report of Ontario Universities, various years.

TABLE 25

GIFTS, DONATIONS, CONTRACTS AND GRANTS FROM THE PRIVATE SECTOR
ONTARIO UNIVERSITIES AND COLLEGES
1983-84 TO 1995-96
($000)

	INCOME $ ACTUAL	INDEX $ ACTUAL	INCOME $ CONSTANT 1995-96	INDEX $ CONSTANT 1995-96
1983-84	138,542	100.0	206,540	100.0
1984-85	186,164	134.4	267,117	129.3
1985-86	179,887	129.8	247,945	120.0
1986-87	184,961	133.5	244,663	118.5
1987-88	219,287	158.3	278,110	134.7
1988-89	257,511	185.9	313,424	151.7
1989-90	263,346	190.1	304,393	147.4
1990-91	296,645	214.1	326,243	158.0
1991-92	339,947	245.4	359,487	174.1
1992-93	307,510	222.0	319,959	154.9
1993-94	388,769	280.6	399,185	193.3
1994-95	425,823	307.4	434,552	210.4
1995-96	463,876	334.8	463,876	224.6

Source: COFO-UO, Financial Report of Ontario Universities, various years.

FIGURE 14

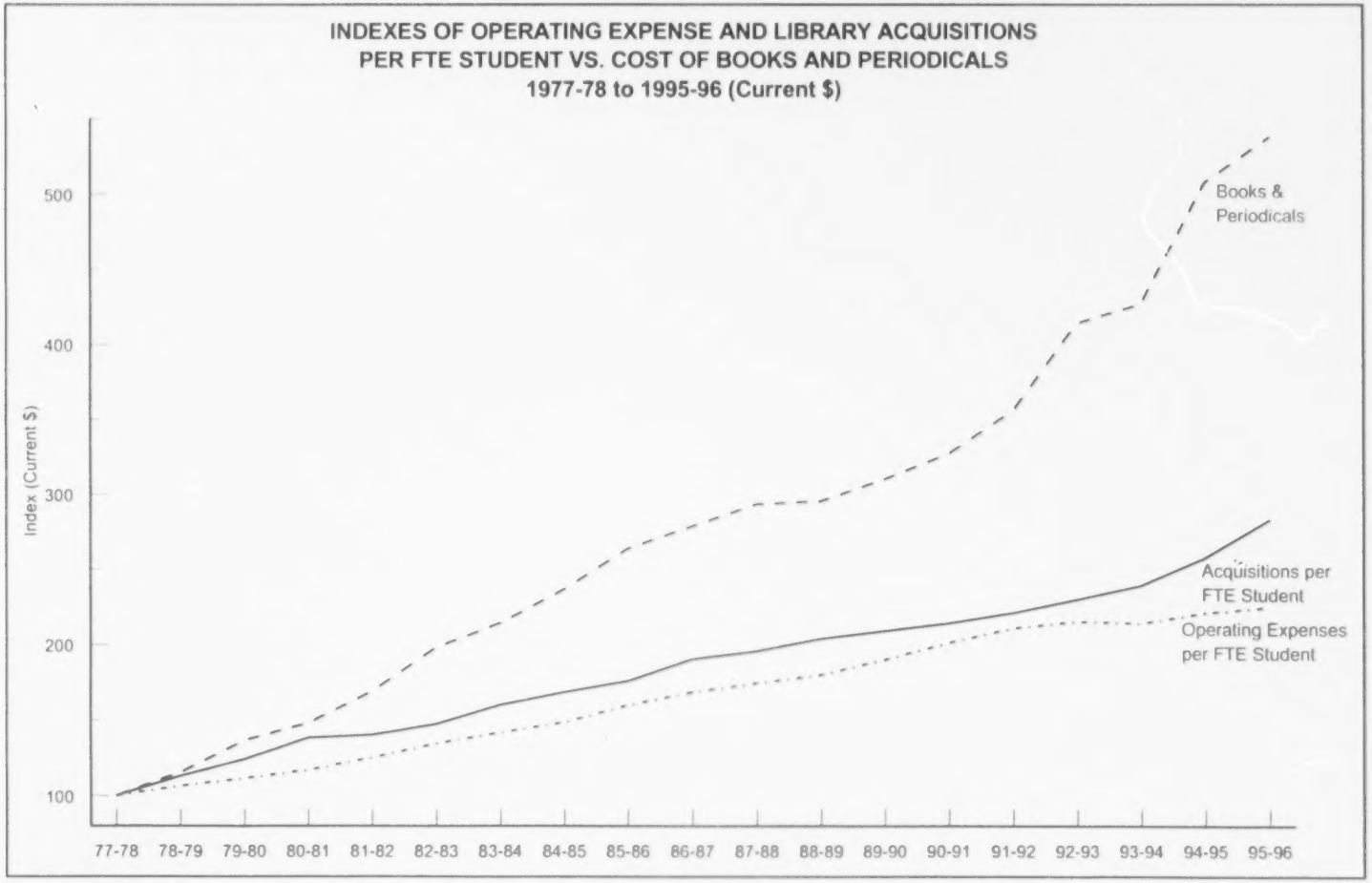
INDEXES OF OPERATING EXPENSE AND LIBRARY ACQUISITIONS
PER FTE STUDENT VS. COST OF BOOKS AND PERIODICALS
1977-78 to 1995-96 (Current $)
Index (Current $)
500
400
300
200
100
Books & Periodicals
Acquisitions per FTE Student
Operating Expenses per FTE Student
77-78
78-79
79-80
80-81
81-82
82-83
83-84
84-85
85-86
86-87
87-88
88-89
89-90
90-91
91-92
92-93
93-94
94-95
95-96

TABLE 26

EXPENDITURES ON LIBRARY ACQUISITIONS
ONTARIO UNIVERSITIES, 1977-78 TO 1995-96

	Acquisitions in Current Dollars	Operating Expenditures in Current Dollars	Acquisitions as % of Total Operating Expenses	Acquisitions per FTE Current Dollars	Index of Acquisitions per FTE	Cost Index of Books and Periodicals*
1977-78	17,451	868,333	2.0	97.36	100.0	100.0
1978-79	19,340	932,721	2.1	110.24	113.2	115.4
1979-80	21,404	985,611	2.2	120.75	124.0	136.5
1980-81	24,763	1,069,267	2.3	134.74	138.4	148.0
1981-82	26,293	1,201,710	2.2	136.58	140.3	168.8
1982-83	28,992	1,359,141	2.1	143.40	147.3	198.1
1983-84	32,691	1,478,725	2.2	155.97	160.2	214.3
1984-85	34,745	1,558,109	2.2	164.15	168.6	236.7
1985-86	36,176	1,664,226	2.2	171.23	175.9	263.7
1986-87	39,474	1,759,936	2.2	185.22	190.2	278.5
1987-88	41,809	1,875,083	2.2	190.43	195.6	293.3
1988-89	45,350	2,003,870	2.3	198.45	203.8	295.3
1989-90	48,030	2,185,521	2.2	203.47	209.0	309.9
1990-91	51,025	2,410,120	2.1	208.40	214.0	326.9
1991-92	54,819	2,624,409	2.1	215.16	221.0	355.4
1992-93	58,083	2,718,337	2.1	223.75	229.8	414.1
1993-94	59,908	2,669,676	2.2	232.68	239.0	426.9
1994-95	63,900	2,697,232	2.4	250.66	257.4	507.7
1995-96	69,332	2,714,639	2.6	275.36	282.8	537.8

* Composite average of books and periodicals index from Table C-3.

Source: COFO-UO Financial Report of Ontario Universities, various years.

TABLE 27

SALARIES AND WAGES, ONTARIO UNIVERSITIES, 1977-78 TO 1995-96
(1995-96 $ CONSTANT)

	Academic Ranks		Other Instruction & Research		Non-Academic Staff		Total Salaries & Wages	
	Constant Dollars ($000)	Constant Dollars Per FTE Enrolment	Constant Dollars ($000)	Constant Dollars Per FTE Enrolment	Constant Dollars ($000)	Constant Dollars Per FTE Enrolment	Constant Dollars ($000)	Constant Dollars Per FTE Enrolment
1977-78	867,282	100.0	97,431	100.0	638,821	100.0	1,603,534	100.0
1978-79	836,871	96.3	90,479	92.7	612,171	95.7	1,539,521	95.9
1979-80	808,041	92.4	88,499	90.1	576,175	89.4	1,472,715	91.1
1980-81	789,242	87.2	87,760	86.3	557,501	83.7	1,434,503	85.7
1981-82	788,604	83.1	85,204	79.9	558,867	80.0	1,432,676	81.7
1982-83	816,635	81.5	85,186	75.7	577,008	78.2	1,478,829	79.9
1983-84	829,944	80.3	85,443	73.6	603,439	79.2	1,518,825	79.4
1984-85	837,649	80.6	86,112	73.7	612,595	80.0	1,536,356	79.9
1985-86	851,556	82.5	88,866	76.7	632,041	83.2	1,572,463	82.4
1986-87	870,937	84.1	89,376	76.8	638,199	83.7	1,598,513	83.5
1987-88	896,507	84.2	91,058	76.1	656,391	83.7	1,643,955	83.5
1988-89	924,911	83.7	97,891	78.9	680,138	83.6	1,702,939	83.4
1989-90	946,749	82.9	104,555	81.5	710,310	84.5	1,761,614	83.5
1990-91	976,712	82.3	111,921	83.9	742,318	84.9	1,830,951	83.4
1991-92	1,009,462	81.8	142,619	102.9	745,703	82.0	1,897,784	83.2
1992-93	1,019,697	81.5	137,751	98.0	767,717	83.3	1,925,164	83.2
1993-94	994,819	80.4	139,020	100.1	745,552	81.8	1,879,391	82.2
1994-95	966,533	79.9	126,760	93.3	760,119	85.3	1,853,413	82.9
1995-96	929,409	77.6	120,266	89.4	767,879	87.0	1,817,554	82.1

Source: COFO-UO, Financial Report of Ontario Universities, various years

FIGURE 15

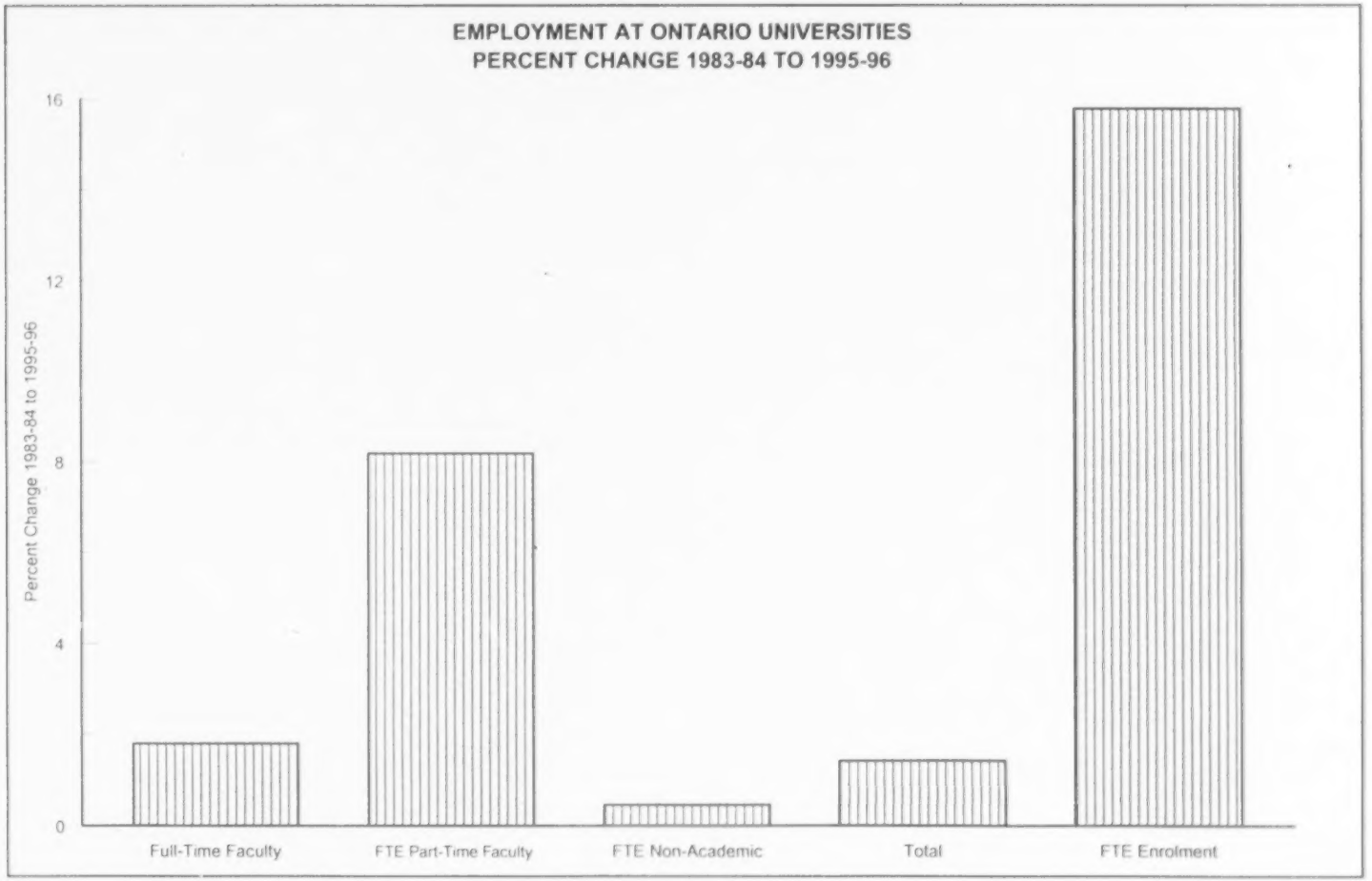
EMPLOYMENT AT ONTARIO UNIVERSITIES
PERCENT CHANGE 1983-84 TO 1995-96
Percent Change 1983-84 to 1995-96
16
12
8
4
0
Full-Time Faculty
FTE Part-Time Faculty
FTE Non-Academic
Total
FTE Enrolment

TABLE 28

EMPLOYMENT AT ONTARIO UNIVERSITIES
1983-84 TO 1996-97

	Full-Time Faculty	FTE Part-Time Faculty	FTE Non-Academic Staff	Total
1983-84	12,435.0	1,799.2	17,353.2	31,587.4
1984-85	12,540.0	1,801.3	17,390.4	31,731.7
1985-86	12,900.0	1,780.0	17,639.8	32,319.8
1986-87	13,020.0	1,782.9	17,716.8	32,519.7
1987-88	13,085.0	1,851.9	17,764.0	32,700.9
1988-89	13,415.0	1,946.7	18,109.6	33,471.3
1989-90	13,671.0	1,991.6	18,443.3	34,105.9
1990-91	13,714.0	1,990.2	18,741.2	34,445.4
1991-92	13,483.0	1,943.2	18,720.0	34,146.2
1992-93	13,326.0	2,002.7	18,551.6	33,880.3
1993-94	13,175.0	2,035.2	18,399.5	33,609.7
1994-95	12,824.0	1,989.5	17,895.8	32,709.3
1995-96	12,659.0	1,946.3	17,432.9	32,038.2

Source: Statistics Canada. Salaries and Salary Scales of Full-time Teaching Staff at Canadian Universities, various years.
Council of Ontario Universities. Survey on Faculty Complements, various years.
Council of Ontario Universities. Survey on Non-academic Employees in Ontario Universities, various years.

TABLE 29

STUDENT-TEACHER RATIOS, ONTARIO

FULL-TIME STUDENTS PER FULL-TIME TEACHERS

	Elementary Schools	Secondary Schools	Community Colleges	Universities
1990-91	17.9	15.1	14.2	15.0
1991-92	17.7	15.1	15.9	16.0
1992-93	17.8	15.3	15.9	16.4
1993-94	18.1	15.3	14.8	16.7
1994-95	18.9	15.5	15.7	17.1

Source: Statistics Canada, Education in Canada, 1996
Ministry of Education, Key Statistics

TABLE 30

CAPITAL FUNDING FOR UNIVERSITIES
1964-65 TO 1996-97

	Capital Funding ($000)	Constant 1996-97 ($000)
1964-65	45,600.0	245,985.6
1965-66	89,239.0	467,501.5
1966-67	93,105.0	470,948.9
1967-68	99,995.0	486,204.9
1968-69	132,974.0	618,909.9
1969-70	109,253.0	490,143.2
1970-71	139,805.0	612,309.8
1971-72	136,047.0	573,863.7
1972-73	98,712.0	396,034.2
1973-74	54,492.0	200,918.9
1974-75	21,642.0	71,574.5
1975-76	20,593.2	61,933.5
1976-77	17,618.7	49,633.1
1977-78	26,089.6	67,655.5
1978-79	17,498.4	41,577.1
1979-80	17,740.5	38,592.8
1980-81	20,357.0	39,915.0
1981-82	22,891.7	39,945.5
1982-83	19,620.3	31,295.2
1983-84	28,960.0	43,950.9
1984-85	34,742.6	50,747.7
1985-86	67,225.8	94,326.6
1986-87	61,217.2	82,434.5
1987-88	60,653.0	78,307.6
1988-89	72,700.0	90,077.9
1989-90	77,700.0	91,427.4
1990-91	77,700.0	86,990.8
1991-92	124,557.4	134,087.6
1992-93	83,967.0	88,938.9
1993-94	72,064.6	75,327.3
1994-95	39,843.5	41,392.2
1995-96	51,465.6	52,392.0
1996-97	33,870.6	33,870.6

Source: Ministry of Education and Training, Capital Allocation, various years.

TABLE 31

BUILDINGS, LAND AND SITE SERVICES
TOTAL EXPENSES PER FTE STUDENT BY PROVINCE
1977-78 TO 1995-96
($000 CONSTANT 1995-96 DOLLARS)

Province	1977 -78	1978 -79	1979 -80	1980 -81	1981 -82	1982 -83	1983 -84	1984 -85	1985 -86	1986 -87	1987 -88	1988 -89	1989 -90	1990 -91	1991 -92	1992 -93	1993 -94	1994 -95	1995 -96	Total	Rank
British Columbia	1,415	1,341	1,321	1,991	1,570	988	528	1,029	1,147	491	402	1,281	955	1,054	2,247	2,215	2,747	2,813	1,975	27,508	(2)
Alberta	709	1,038	1,797	1,679	1,894	2,031	1,920	1,261	1,416	2,417	1,315	642	592	489	515	849	734	563	516	22,378	(3)
Saskatchewan	1,200	1,564	2,071	1,801	704	364	545	757	829	1,214	834	1,071	2,918	1,533	400	258	369	339	696	19,467	(4)
Manitoba	205	165	676	126	385	245	528	769	425	552	293	321	176	262	406	371	232	564	990	7,690	(8)
Quebec	1,496	1,676	728	489	254	342	227	343	258	279	227	390	535	681	818	662	785	1,067	1,384	12,640	(5)
New Brunswick	27	242	554	64	37	249	483	250	575	571	910	557	83	42	379	604	819	634	444	7,524	(9)
Nova Scotia	581	1,566	1,582	1,340	873	242	32	122	362	540	545	608	190	54	40	13	154	216	471	9,531	(7)
P.E.I.	93	65	1,222	351	0	303	119	251	1,036	21,970	1,689	1,329	2,455	535	92	417	0	0	0	31,928	(1)
Newfoundland	240	262	186	199	156	349	657	208	617	538	1,485	1,724	668	583	1,011	617	307	595	544	10,947	(6)
9 Provinces	1,053	1,288	1,069	936	719	641	558	591	619	863	565	654	696	644	825	788	899	1,037	1,112	15,557	
Ontario	507	274	211	390	234	189	143	162	335	460	351	403	580	799	789	411	496	286	211	7,231	(10)
Canada	824	870	719	712	521	458	393	422	509	708	482	555	650	706	811	639	740	743	760	12,222	

Source: Statistics Canada
Canadian Association of University Business Officers

FIGURE 16

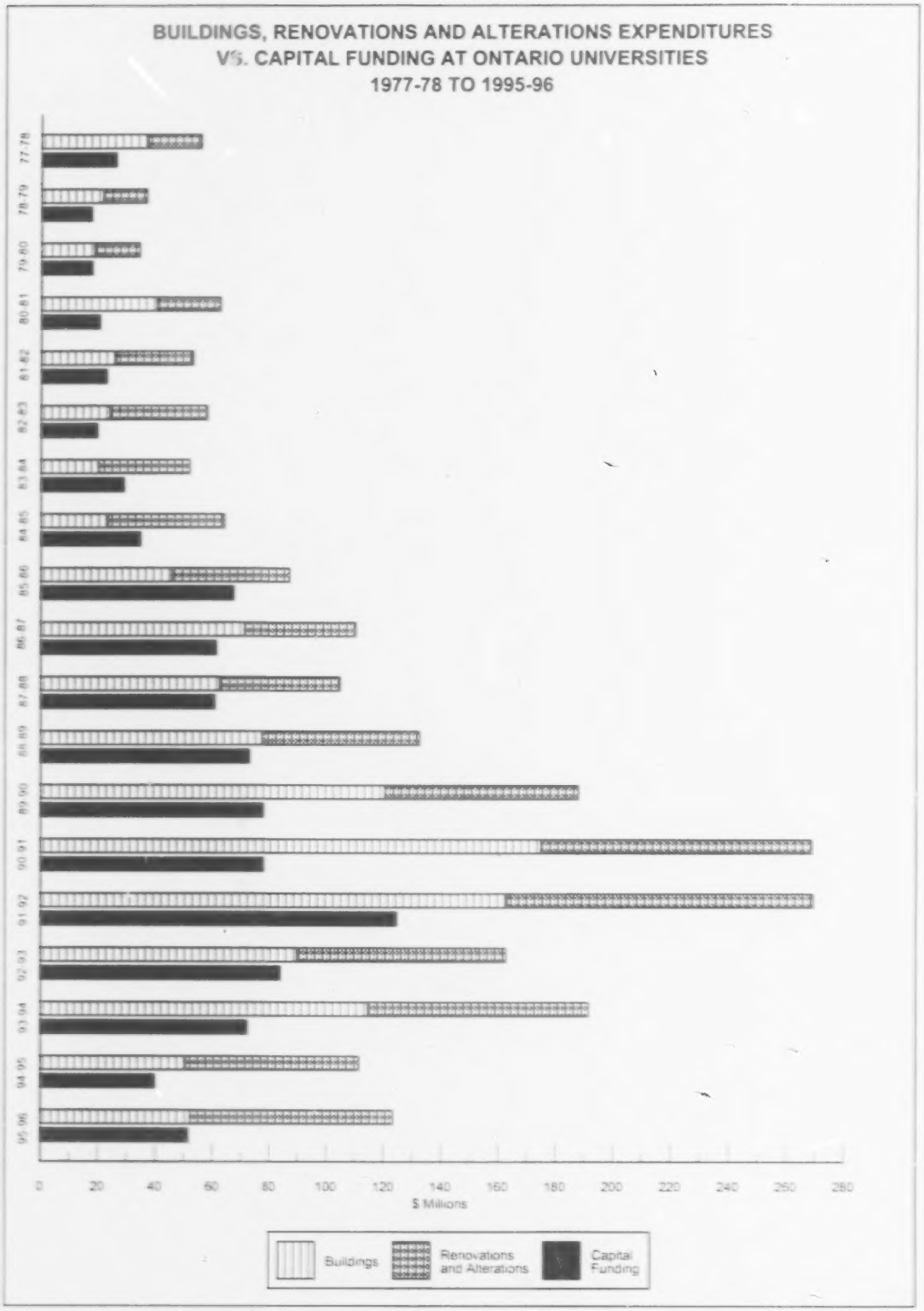
BUILDINGS, RENOVATIONS AND ALTERATIONS EXPENDITURES
VS. CAPITAL FUNDING AT ONTARIO UNIVERSITIES
1977-78 TO 1995-96
77-78
78-79
79-80
80-81
81-82
82-83
83-84
84-85
85-86
86-87
87-88
88-89
89-90
90-91
91-92
92-93
93-94
94-95
95-96
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
$ Millions
Buildings
Renovations and Alterations
Capital Funding

TABLE 32

BUILDINGS, RENOVATIONS AND ALTERATIONS AT ONTARIO UNIVERSITIES*

1977-78 to 1995-96 ($000)

	Buildings			Renovations and Alterations			Total	
	Actual $	Constant $	Percentage	Actual $	Constant $	Percentage	Actual $	Constant $
1977-78	37,344	95,116	67.0	18,416	46,906	33.0	55,760	142,022
1978-79	21,728	50,707	59.1	15,032	35,081	40.9	36,760	85,788
1979-80	18,587	39,714	54.2	15,723	33,595	45.8	34,310	73,309
1980-81	40,310	77,516	64.5	22,153	42,600	35.5	62,463	120,116
1981-82	26,353	45,167	49.7	26,691	45,746	50.3	53,044	90,912
1982-83	24,166	37,874	41.7	33,842	53,038	58.3	58,008	90,912
1983-84	20,038	29,871	38.7	31,789	47,388	61.3	51,827	77,258
1984-85	23,487	33,706	36.7	40,487	58,102	63.3	63,974	91,807
1985-86	45,758	63,077	52.7	41,105	56,663	47.3	86,863	119,740
1986-87	71,160	94,113	64.6	38,979	51,552	35.4	110,139	145,665
1987-88	62,532	79,320	59.8	42,100	53,403	40.2	104,632	132,723
1988-89	77,374	94,171	58.4	55,092	67,052	41.6	132,466	161,223
1989-90	120,520	139,279	64.2	67,263	77,732	35.8	187,783	217,011
1990-91	175,042	192,456	65.1	93,712	103,035	34.9	268,754	295,491
1991-92	163,114	172,440	60.6	106,112	112,179	39.4	269,226	284,619
1992-93	89,940	93,590	55.3	72,678	75,628	44.7	162,618	169,218
1993-94	114,733	117,796	59.9	76,705	78,753	40.1	191,438	196,548
1994-95	50,558	51,577	45.4	60,803	62,029	54.6	111,361	113,606
1995-96	52,316	52,316	42.5	70,839	70,839	57.5	123,155	123,155

* Includes all funds, but excludes affiliated and federated colleges and universities.

Source: COFO-UO, Financial Report of Ontario Universities, various years.

FIGURE 17

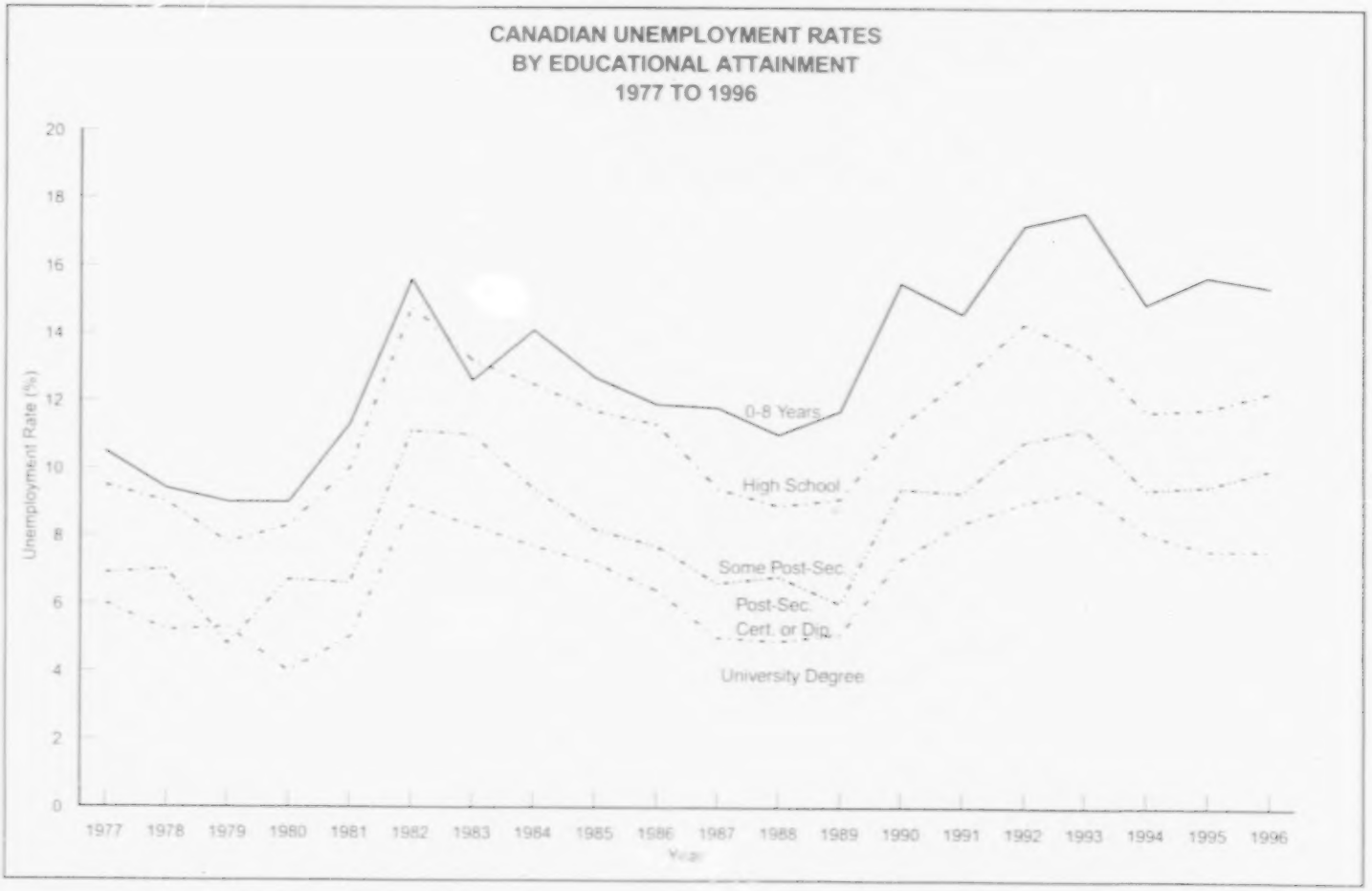
CANADIAN UNEMPLOYMENT RATES
BY EDUCATIONAL ATTAINMENT
1977 TO 1996
Unemployment Rate (%)
20
18
16
14
12
10
8
6
4
2
0
0-8 Years
High School
Some Post-Sec.
Post-Sec. Cert. or Dip.
University Degree
1977
1978
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
Year

FIGURE 18

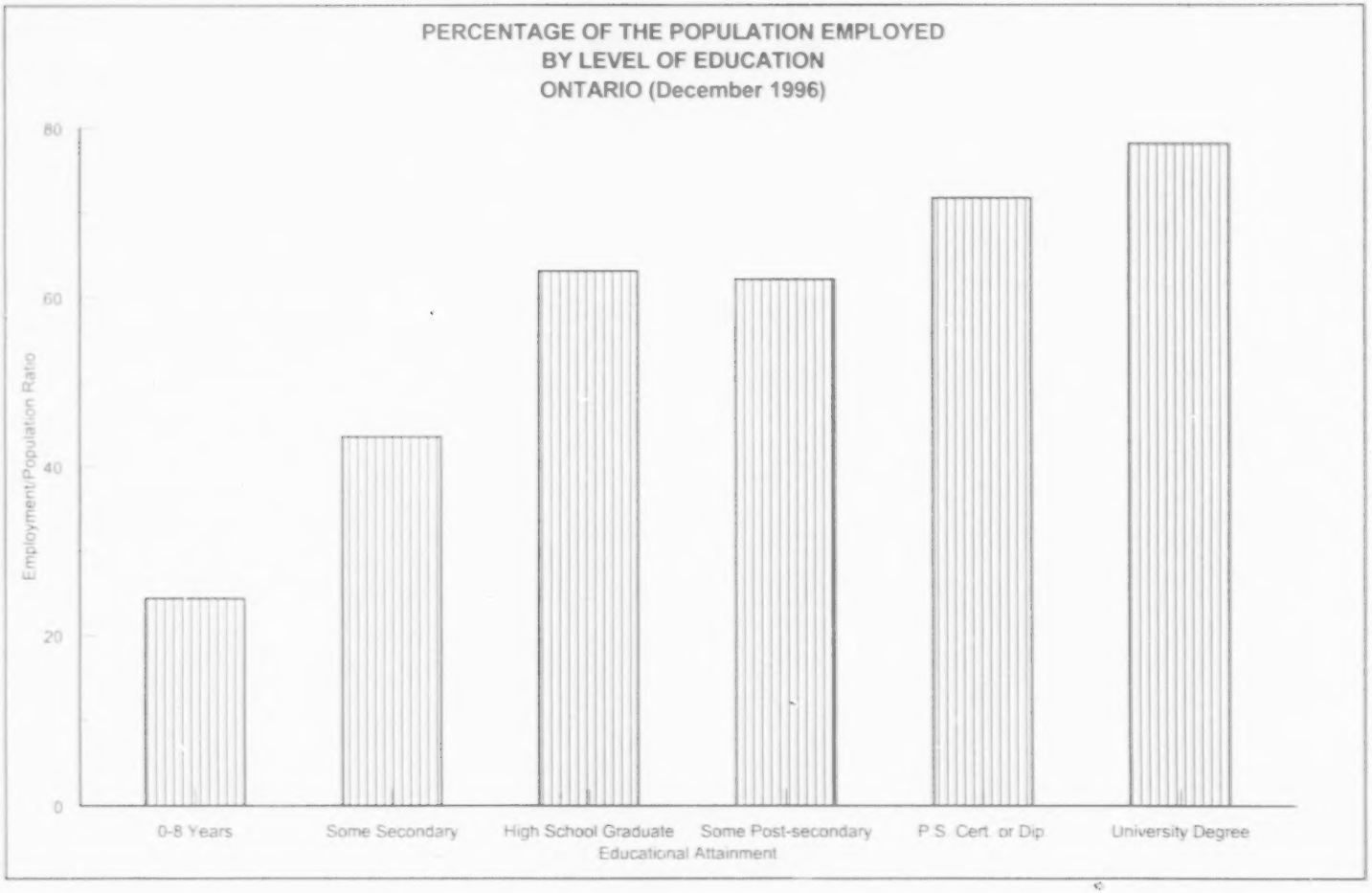
PERCENTAGE OF THE POPULATION EMPLOYED
BY LEVEL OF EDUCATION
ONTARIO (December 1996)
Employment/Population Ratio
80
60
40
20
0
0-8 Years
Some Secondary
High School Graduate
Some Post-secondary
P.S. Cert. or Dip
University Degree
Educational Attainment

TABLE 33

CANADIAN UNEMPLOYMENT RATES
BY EDUCATIONAL ATTAINMENT

	Unemployment Rates* (%)																			Employment /Population Ratio**
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1996
Total Canadian Labour Force	8.3	7.9	7.0	7.1	8.5	12.7	11.1	10.7	9.8	9.3	7.9	7.4	7.5	9.3	10.2	11.2	11.0	9.3	9.2	9.4	57.9
0-8 years	10.5	9.4	9.0	9.0	11.3	15.6	12.6	14.1	12.7	11.9	11.8	11.0	11.7	15.5	14.6	17.2	17.6	14.9	15.7	15.4	21.7
High School	9.5	9.0	7.8	8.3	10.0	14.8	13.2	12.5	11.7	11.3	9.4	8.9	9.1	11.3	12.7	14.3	13.5	11.7	11.8	12.3	52.7
Some Post-Secondary	6.9	7.0	4.8	6.7	6.6	11.1	11.0	9.4	8.2	7.7	6.6	6.8	6.0	9.4	9.3	10.8	11.2	9.4	9.5	10.0	60.5
Post Secondary Certificate or Diploma	6.0	5.2	5.3	4.0	5.0	8.9	8.3	7.7	7.2	6.4	5.0	4.9	5.1	7.3	8.4	9.0	9.4	8.1	7.6	7.6	70.1
University Degree	3.0	3.4	2.8	2.4	3.2	5.9	3.8	4.6	4.4	3.8	3.6	3.5	3.6	3.8	4.8	5.0	5.2	4.7	4.5	4.6	78.3

Source: Estimates by Educational Attainment, The Labour Force Monthly Report, Statistics Canada

* As of December of each year

** Percent of population group by educational attainment aged 15 years and over who are employed

FIGURE 19

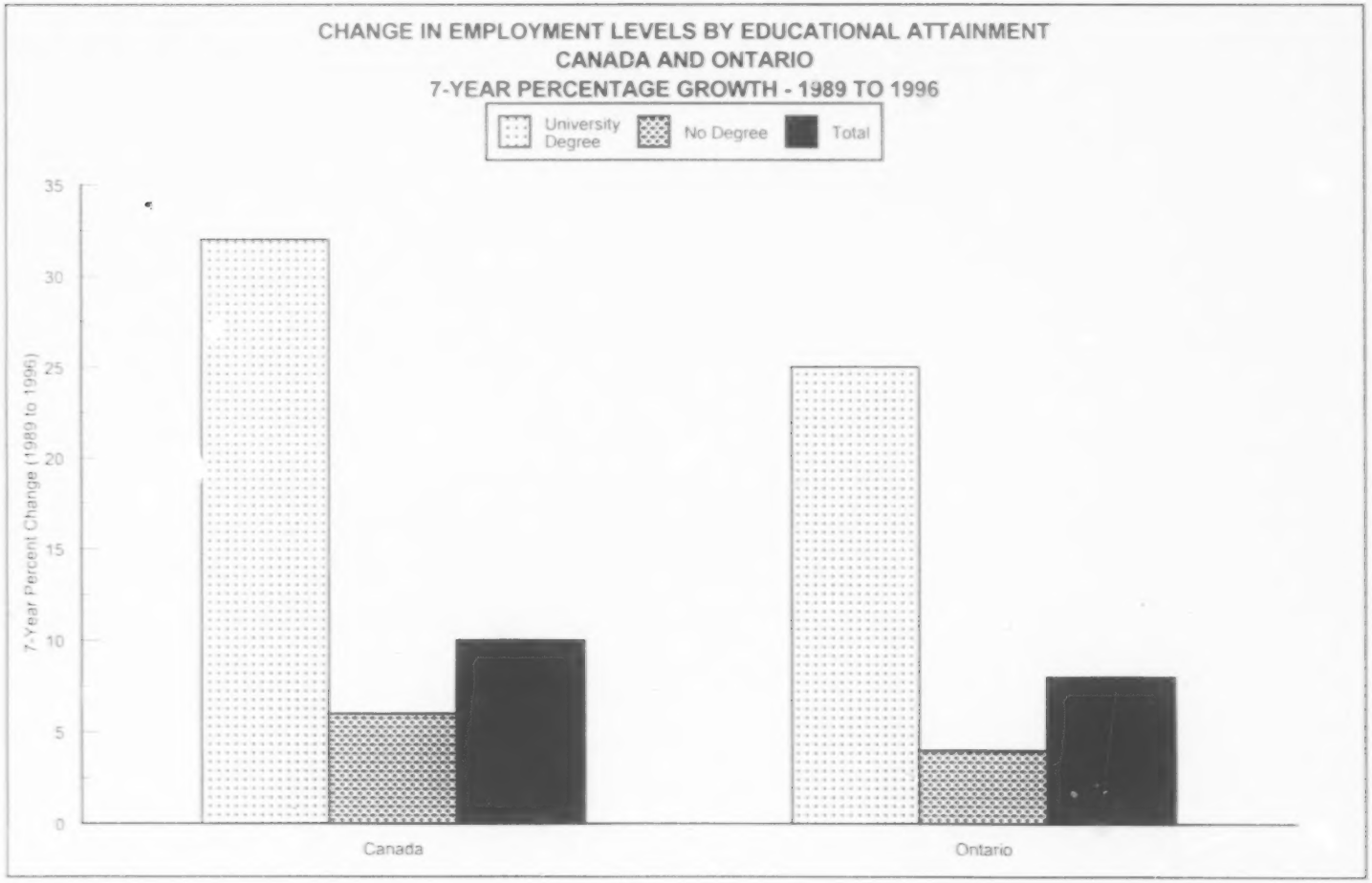
CHANGE IN EMPLOYMENT LEVELS BY EDUCATIONAL ATTAINMENT
CANADA AND ONTARIO
7-YEAR PERCENTAGE GROWTH - 1989 TO 1996
University Degree
No Degree
Total
7-Year Percent Change (1989 to 1996)
35
30
25
20
15
10
5
0
Canada
Ontario

TABLE 34

EMPLOYMENT BY LEVEL OF EDUCATIONAL ATTAINMENT
1989-1996*
(000's)

	Canada			Ontario		
	University Degree	No Degree	Total	University Degree	No Degree	Total
1989	1,917	10,462	12,379	844	4,095	4,939
1990	1,835	10,413	12,248	801	4,018	4,819
1991	1,910	10,219	12,129	852	3,859	4,711
1992	2,079	10,071	12,150	885	3,829	4,714
1993	2,191	10,115	12,306	924	3,854	4,778
1994	2,287	10,383	12,670	978	3,949	4,927
1995	2,530	10,892	13,422	1,073	4,168	5,241
1996	2,530	11,079	13,609	1,059	4,255	5,314
7-Year Percentage Growth	32%	6%	10%	25%	4%	8%

* As of December of each year

Source: Statistics Canada 71-001

FIGURE 20

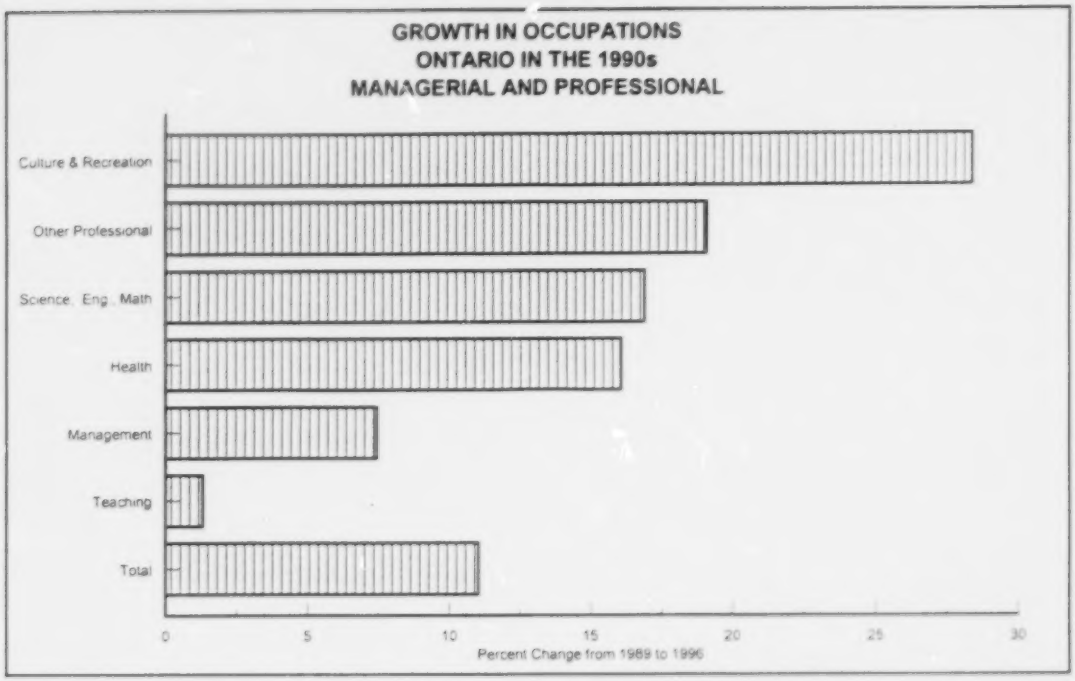

FIGURE 21

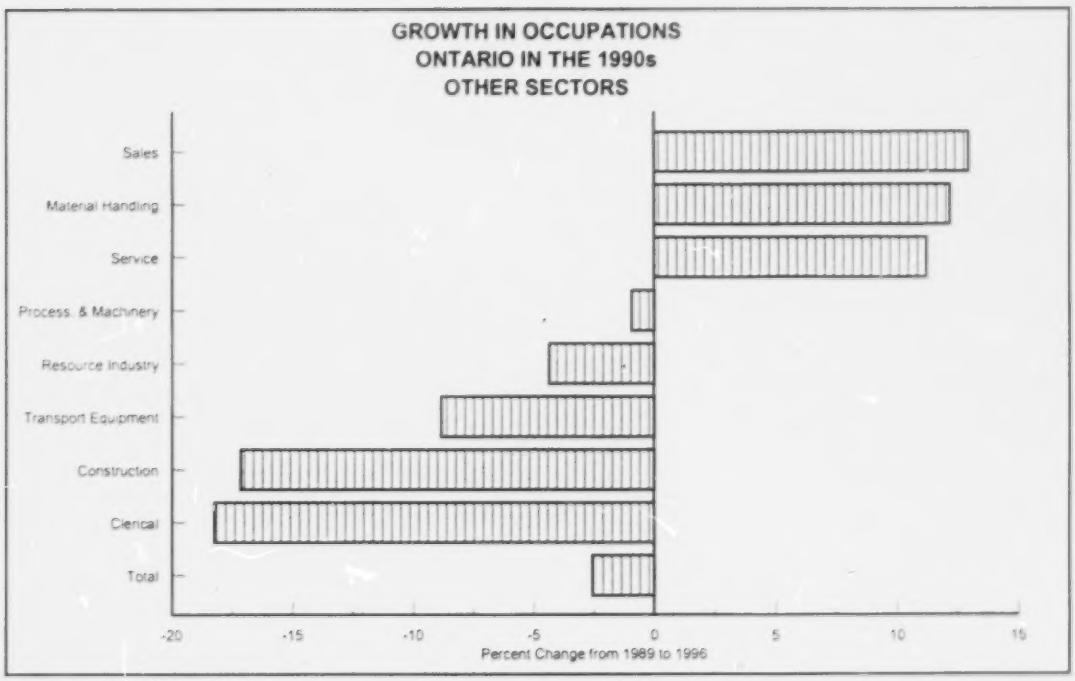

TABLE 35

EMPLOYMENT BY OCCUPATION
ONTARIO AND CANADA
1989 TO 1996*
(Thousands)

	Canada								Ontario							
	1989	1990	1991	1992	1993	1994	1995	1996	1989	1990	1991	1992	1993	1994	1995	1996
MANAGERIAL AND PROFESSIONAL																
Management	1,631.6	1,730.0	1,744.6	1,775.1	1,720.9	1,876.0	1,892.1	1,907.0	724.7	745.4	736.6	763.3	702.1	817.6	793.9	778.6
Teaching	589.0	582.7	633.5	649.7	632.5	666.9	681.7	666.8	238.0	218.7	256.2	240.4	244.0	247.8	255.5	241.1
Culture and Recreation	255.6	242.5	234.8	251.0	291.8	282.3	316.6	302.8	100.4	111.1	94.6	108.4	133.2	122.2	125.7	128.9
Health	642.9	676.8	683.8	720.8	733.6	725.8	743.8	741.2	225.2	239.0	244.7	279.8	270.9	253.9	254.2	261.4
Other Professional	251.2	304.5	292.5	326.8	329.8	337.4	328.0	331.3	105.3	120.9	129.5	135.3	135.3	141.6	129.8	125.4
Science, Engineering and Mathematics	482.0	509.0	475.1	481.5	507.6	554.4	517.9	566.7	202.9	222.9	196.0	195.8	211.6	223.2	228.9	237.2
OTHER SECTORS																
Service	1,712.0	1,625.6	1,739.0	1,757.9	1,793.9	1,836.0	1,879.9	1,860.4	631.0	603.3	668.0	655.3	683.1	652.1	699.3	701.7
Sales	1,279.1	1,314.9	1,243.0	1,267.6	1,320.0	1,327.3	1,377.6	1,407.5	491.6	543.3	473.0	497.0	512.7	531.0	541.8	555.2
Material Handling	456.5	411.1	426.2	409.8	447.2	444.6	462.2	490.9	192.4	165.6	171.2	167.7	182.3	191.3	186.4	215.8
Processing and Machinery	1,697.4	1,569.6	1,464.0	1,467.5	1,502.0	1,604.8	1,598.1	1,679.3	763.4	692.9	645.4	633.1	645.0	693.6	713.2	756.3
Transport Equipment	498.1	479.9	458.6	467.0	487.3	492.4	506.6	503.5	189.1	165.7	170.2	179.8	187.0	178.0	187.5	172.4
Resource Industry	526.6	560.7	534.5	512.5	539.0	541.0	533.2	573.1	137.9	140.0	125.7	123.1	129.2	139.7	122.4	131.9
Construction	755.7	688.2	668.9	641.0	623.3	672.8	654.7	667.6	308.4	263.5	229.9	236.1	223.1	257.3	248.3	255.5
Clerical	2,195.5	2,131.6	2,102.6	2,034.9	2,009.0	1,958.5	1,929.8	1,911.2	920.5	861.9	843.2	789.5	811.1	774.8	754.4	752.6

* December of each year
Source: Statistics Canada

FIGURE 22

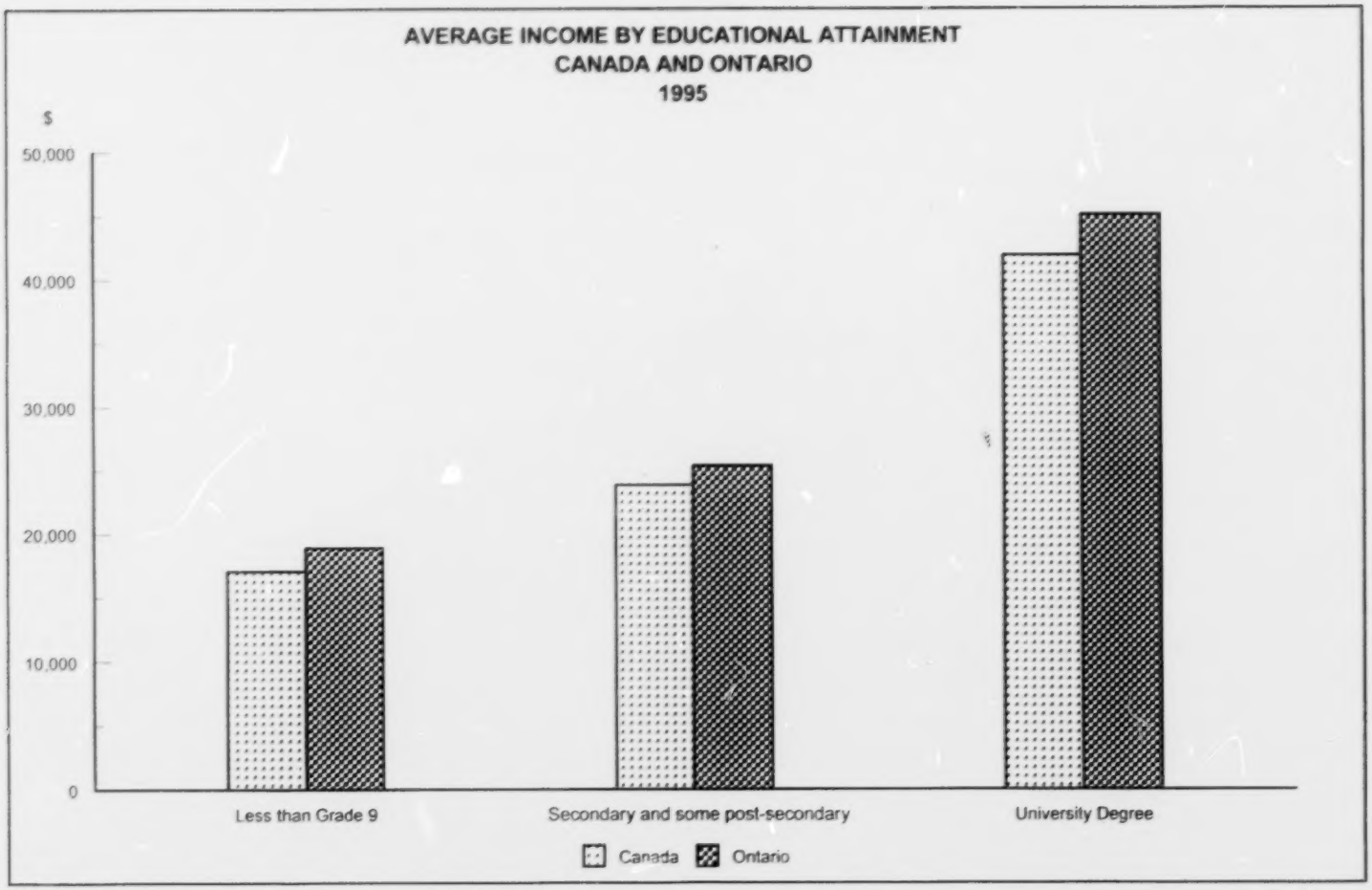
AVERAGE INCOME BY EDUCATIONAL ATTAINMENT
CANADA AND ONTARIO
1995
$
50,000
40,000
30,000
20,000
10,000
0
Less than Grade 9
Secondary and some post-secondary
University Degree
Canada
Ontario

TABLE 36

AVERAGE INCOME BY EDUCATIONAL ATTAINMENT
CANADA AND ONTARIO, 1995

	Canada	Ontario
University Degree	$41,851	$45,025
Secondary and some post-secondary	23,827	25,344
Less than Grade 9	17,053	18,894

Source: Statistics Canada 13-207, Income Distributions by Size in Canada, 1995

APPENDIX A

METHODOLOGY FOR ESTIMATING EACH PROVINCE'S OPERATING GRANTS TO UNIVERSITIES PER FTE STUDENT

1977-78 to 1989-90: Actual "Net Total Operating Grants" were divided by actual "Net Total Enrolment". These data were sourced from the Tripartite Committee on Interprovincial Comparisons, April 1992, which was the last year of its publication.

1990-91 to 1997-98: Estimates of annual percent change were applied against the last actual figures of 1989-90.

EXAMPLE: ONTARIO.

Estimate of Ontario Operating Grants to Universities per FTE Student in 1990-91 (post Tripartite Committee):			$6,772
CALCULATION:			
1989-90 - Last year Tripartite Committee reported actual Net Total Operating Grants for Ontario:		$1,599,386,000	
1989-90 - Ontario operating grants reported in CAUBO:	$1,724,504,000		
1990-91 - Ontario operating grants reported in CAUBO:	$1,869,822,000		
1989-90 to 1990-91 percent change using CAUBO data *:	8.43 %		
1990-91 - Estimated Net Total Operating Grants = 1,599,386,000 X 1.0843 =		$1,734,160,738	
1989-90 - Last year Tripartite Committee reported actual Net Total Enrolment for Ontario:		247,053	
1989-90 - Ontario total enrolment** reported in Statistics Canada 81-220:	237,876		
1990-91 - Ontario total enrolment** reported in Statistics Canada 81-220:	246,577		
1989-90 to 1990-91 percent change using Statistics Canada data:	3.66 %		
1990-91 - Estimated Net Total Enrolment = 247,053 X 1.0366 =		256,090	
1990-91 - Estimated Net Total Operating Grants		$1,734,160,738	
divided by 1990-91 Estimated Net Total Enrolment		256,090	
equals 1990-91 Ontario Operating Grants to Universities per FTE Student			$6,772

* 1990-91 to 1995-96: For each of these years the annual percent change was calculated on the operating grants reported in the Financial Reports of the Canadian Association of Business Officers.
1996-97 to 1997-98: The annual percent change to operating grants for these two years were from government announcements provided by the Association of Universities and Colleges of Canada.

** 1989-90 to 1992-93 enrolment data were obtained from Statistics Canada 81-220.
From 1993-94 enrolment data were obtained from Statistics Canada 81-003.
FTE enrolment was derived as followed: Full-time enrolment + (part-time enrolment divided by 3.5).

APPENDIX B

METHODOLOGY FOR ESTIMATING EACH PROVINCE'S TOTAL OPERATING EXPENDITURES PER FTE STUDENT

1977-78 to 1989-90: Actual "Total Operating Expenditures" were divided by actual "Enrolment - Provincial Institutions (excluding interprovincial transfers)". These data were sourced from the Tripartite Committee on Interprovincial Comparisons, April 1992, which was the last year of its publication.

1990-91 to 1993-94: Estimates of annual percent change were applied against the last actual figures of 1989-90.

EXAMPLE: ONTARIO.

Estimate of Ontario Total Operating Expenditures per FTE Student in 1993-94 (post Tripartite Committee): $9,538

CALCULATION:

1989-90 - Last year Tripartite Committee reported actual Total Operating Expenditures for Ontario:			$2,131,704,000
1989-90 - Ontario operating expenditures reported in CAUBO:	$2,254,667,000		
1990-91 - Ontario operating expenditures reported in CAUBO:	$2,475,678,000		
1989-90 to 1990-91 percent change using CAUBO data *:	9.80 %		
1990-91 - Estimated Total Operating Expenditures = 2,131,704,000 X 1.098 =			$2,340,661,701
1991-92 - Ontario operating expenditures reported in CAUBO:	$2,671,830,000		
1990-91 to 1991-92 percent change using CAUBO data *:	7.92 %		
1991-92 - Estimated Total Operating Expenditures = 2,340,661,701 X 1.0792 =			$2,526,116,140
1992-93 - Ontario operating expenditures reported in CAUBO:	$2,767,197,000		
1991-92 to 1992-93 percent change using CAUBO data *:	3.57 %		
1992-93 - Estimated Total Operating Expenditures = 2,526,116,140 X 1.0357 =			$2,616,282,100
1993-94 - Ontario operating expenditures reported in CAUBO:	$2,720,238,000		
1992-93 to 1993-94 percent change using CAUBO data *:	(1.70) %		
1993-94 - Estimated Total Operating Expenditures = 2,616,282,100 X (-1.017) =			$2,571,884,108

1989-90 - Last year Tripartite Committee reported actual Net Total Enrolment for Ontario:			247,084
1989-90 - Ontario total enrolment** reported in Statistics Canada 81-220:	237,876		
1990-91 - Ontario total enrolment** reported in Statistics Canada 81-220:	246,577		
1989-90 to 1990-91 percent change using Statistics Canada data:	3.66 %		
1990-91 - Estimated Net Total Enrolment = 247,084 X 1.0366 =			256,122
1991-92 - Ontario total enrolment** reported in Statistics Canada 81-220:	256,682		
1990-91 to 1991-92 percent change using Statistics Canada data:	4.10 %		
1991-92 - Estimated Net Total Enrolment = 256,122 X 1.041 =			266,618
1992-93 - Ontario total enrolment** reported in Statistics Canada 81-220:	261,564		
1991-92 to 1992-93 percent change using Statistics Canada data:	1.90 %		
1992-93 - Estimated Net Total Enrolment = 266,618 X 1.019 =			271,689
1993-94 - Ontario total enrolment** reported in Statistics Canada 81-220:	259,604		
1992-93 to 1993-94 percent change using Statistics Canada data:	(0.75) %		
1993-94 - Estimated Net Total Enrolment = 271,689 X (-1.0075) =			269,653

1993-94 - Estimated Total Operating Expenditures	$2,571,884,108	
divided by 1993-94 Estimated Net Total Enrolment	269,653	
equals 1993-94 Ontario Total Operating Expenditures per FTE Student		$9,538

* 1990-91 to 1993-94: For each of these years the annual percent change was calculated on the operating expenditures reported in the Financial Reports of the Canadian Association of Business Officers.

** 1989-90 to 1992-93 enrolment data were obtained from Statistics Canada 81-220.
From 1993-94 enrolment data were obtained from Statistics Canada 81-003.
FTE enrolment was derived as followed: Full-time enrolment + (part-time enrolment divided by 3.5).

APPENDIX C

UPDATE OF THE ONTARIO UNIVERSITY NON-SALARY PRICE INDEX

The Ontario University Non-Salary Price Index was developed in 1978 to provide "a more sensitive tool to assist in measuring the likely impact of inflation on non-salary expenditure, and a more accurate measure of the extent of inflationary erosion between any two years".* The OUNSPI measures both component and global price changes for university non-salary expenditures. The components include library acquisitions, equipment and furniture, operational supplies and expenses, utilities, renovations, alterations, and major repairs, externally contracted services, travel, insurance and space rental. In 1984, and again in 1993, the OUNSPI was revised to take account of altered patterns of expenditure.

Table C-1 compares the growth of the OUNSPI with that of the Consumer Price Index for Canada between 1977-78 and 1997-98.

Table C-2 provides an update of the index values for each component of the OUNSPI based on 1980-81 being equal to 10.00.

Table C-3 provides information on the annual percentage variations of the components of the OUNSPI to 1995-96.

Figure C-1 identifies the sources of information for the various components employed in OUNSPI and indicates the index weights employed for each component in the calculation of the overall non-salary price index.

* Council of Ontario Universities, *Ontario University Non-Salary Price Index*, February 1978.

TABLE C-1

CONSUMER PRICE INDEX AND THE ONTARIO UNIVERSITY NON-SALARY PRICE INDEX (1980-81=100)

Year	OUNSPI	CPI	OUNSPI Annual % Increase	CPI Annual % Increase
Actual				
1970-71	37.8	44.7	-	-
1971-72	39.5	46.4	4.4	3.9
1972-73	40.8	48.8	3.4	5.1
1973-74	45.4	53.1	11.2	8.9
1974-75	52.9	59.2	16.6	11.4
1975-76	58.6	65.1	10.9	10.0
1976-77	63.9	69.5	8.9	6.8
1977-78	71.8	75.5	12.3	8.6
1978-79	78.8	82.4	9.9	9.1
1979-80	89.1	90.0	13.1	9.2
1980-81	100.0	100.0	12.2	11.2
1981-82	113.9	112.2	13.9	12.2
1982-83	125.5	122.7	10.2	9.4
1983-84	131.2	129.0	4.5	5.1
1984-85	139.0	134.0	6.0	3.9
1985-86	145.2	139.5	4.4	4.1
1986-87	149.2	145.4	2.8	4.2
1987-88	154.4	151.6	3.5	4.3
1988-89	158.8	158.0	2.8	4.2
1989-90	162.1	166.4	2.1	5.3
1990-91	164.7	174.9	1.6	5.1
1991-92	166.7	181.9	1.2	4.0
1992-93	175.0	184.8	5.0	1.6
1993-94	179.0	187.3	2.3	1.3
1994-95	193.9	188.5	8.3	0.6
1995-96	204.9	192.3	5.7	2.1
1996-97(e)	208.6	195.8	1.8	1.8
1997-98(e)	211.9	198.9	1.6	1.6

e = estimate

Source: Statistics Canada 62-001

TABLE C-2

COMPONENT PRICE INDICES IN THE ONTARIO UNIVERSITY NON-SALARY PRICE INDEX
(BASED ON THE FISCAL YEAR 1980-81 = 100.0)

Component	1977 -78	1978 -79	1979 -80	1980 -81	1981 -82	1982 -83	1983 -84	1984 -85	1985 -86	1986 -87	1987 -88	1988 -89	1989 -90	1990 -91	1991 -92	1992 -93	1993 -94	1994 -95	1995 -96
Books	70.5	77.2	96.6	100.0	110.7	129.6	133.8	137.2	149.8	153.0	162.9	162.5	165.3	168.5	176.0	192.5	160.1	212.4	209.7
Periodicals	64.3	78.7	87.4	100.0	116.1	136.5	153.6	179.3	202.7	218.6	228.6	231.6	247.8	266.7	296.5	356.9	403.0	459.2	500.4
Equipment	69.6	80.0	88.9	100.0	115.3	123.6	127.2	138.8	146.9	147.8	143.0	136.7	133.3	139.5	140.6	151.2	162.9	171.1	170.6
Computer Equipment	74.2	78.8	83.5	100.0	114.9	118.7	118.5	121.6	124.2	126.6	126.7	130.1	132.9	128.5	126.3	127.6	129.7	130.3	129.0
Furniture	75.0	80.3	90.5	100.0	112.3	120.3	125.7	134.1	142.1	148.8	153.4	159.8	165.3	170.7	172.6	176.3	179.6	182.2	189.9
Stationery and Paper	68.0	74.7	87.6	100.0	109.0	108.4	109.3	121.0	120.4	128.7	141.5	152.0	154.2	149.0	132.1	132.3	131.8	160.0	201.9
Printing Materials	74.2	79.6	90.9	100.0	110.3	113.2	116.2	124.0	124.2	131.6	136.5	153.3	152.9	150.5	138.5	137.6	139.5	161.6	202.4
Tools and Apparatus	67.8	74.9	87.5	100.0	111.6	120.9	126.1	133.5	140.2	145.1	150.5	159.5	165.3	169.8	173.7	176.5	181.7	186.6	193.9
Chemicals	68.6	74.5	86.9	100.0	112.7	118.3	122.2	125.6	128.2	128.3	136.1	148.0	144.3	146.2	143.1	143.9	148.0	162.7	167.7
Postage	71.3	83.4	99.8	100.0	124.2	175.0	183.9	183.9	203.7	208.8	224.9	233.3	238.1	249.1	268.4	285.4	292.7	296.6	306.2
Long Distance	87.6	92.5	95.7	100.0	111.5	128.4	135.3	137.1	138.6	137.7	137.5	133.7	131.8	131.2	133.4	134.6	136.1	136.1	139.0
Computer Software	-	-	-	-	-	-	-	-	-	-	-	-	-	128.5	126.3	127.6	129.7	130.3	129.0
Electricity	77.0	81.1	89.5	100.0	109.8	120.5	130.5	141.1	150.2	157.2	165.9	174.9	185.0	199.4	218.5	241.4	253.1	252.2	249.6
Gas	70.2	80.4	84.8	100.0	126.5	154.3	162.0	164.3	164.3	163.3	160.2	156.2	147.3	145.9	159.1	163.1	176.0	180.0	169.4
Oil	56.2	64.5	81.7	100.0	124.6	133.8	152.2	170.3	161.5	100.7	113.5	96.3	108.9	114.4	95.8	105.6	96.9	117.7	124.3
Telephone	87.6	92.5	95.7	100.0	111.5	128.4	135.3	137.1	138.6	137.7	137.5	133.7	131.8	131.2	133.4	134.6	136.1	136.1	139.0
Water	80.0	86.0	92.3	100.0	112.4	125.5	134.0	142.8	152.1	156.8	160.2	171.8	185.6	202.4	218.4	234.3	246.1	254.6	265.5
Renovations	71.5	79.4	91.4	100.0	109.7	115.0	120.2	124.2	129.6	136.1	142.7	150.5	155.6	159.4	156.3	155.5	158.2	163.4	168.4
Transportation	73.7	78.5	87.4	100.0	118.1	130.7	136.7	142.1	149.2	152.1	158.7	161.7	171.8	180.0	181.0	186.9	192.7	202.6	211.8
Shelter	82.6	88.1	93.0	100.0	112.5	124.8	131.9	136.9	141.7	146.3	153.2	160.7	170.4	179.5	186.0	189.1	191.1	192.1	193.8
Food Away from Home	75.6	82.2	92.1	100.0	109.9	120.4	125.8	130.9	136.5	143.2	148.4	156.1	164.0	176.0	189.1	192.3	194.6	197.4	201.4
Insurance	82.0	86.8	91.9	100.0	120.0	130.1	137.3	141.2	148.8	164.5	185.8	201.9	215.7	211.6	211.9	214.3	225.7	228.6	230.2
Space Rental	82.6	88.1	93.0	100.0	112.5	124.8	131.9	136.9	141.7	146.3	153.2	160.7	170.4	179.5	185.7	188.7	190.6	192.1	193.8

e = estimated figure

Source: Figure A-2

TABLE C-3

ANNUAL PERCENTAGE VARIATION IN THE ONTARIO UNIVERSITY NON-SALARY PRICE INDEX COMPONENTS

Component	1977 -78	1978 -79	1979 -80	1980 -81	1981 -82	1982 -83	1983 -84	1984 -85	1985 -86	1986 -87	1987 -88	1988 -89	1989 -90	1990 -91	1991 -92	1992 -93	1993 94	1994 -95	1995 -96
Books	19.2	9.5	25.2	3.5	10.7	17.1	3.2	2.5	9.2	2.1	6.5	-0.2	1.7	2.0	4.4	9.4	-16.9	32.7	-1.3
Periodicals	17.8	22.3	11.0	14.5	16.1	17.6	12.5	16.7	13.0	7.9	4.6	1.3	7.0	7.6	11.2	20.4	12.9	13.9	9.0
Equipment	16.5	15.0	11.1	12.5	15.3	7.3	2.9	9.1	5.8	0.6	-3.2	-4.4	1.2	0.8	0.8	7.5	7.7	5.0	-0.3
Computer Equipment	9.1	6.2	5.9	19.8	14.9	3.4	-0.2	2.6	2.2	1.9	0.0	2.7	2.2	-3.4	-1.7	1.0	1.6	0.5	-1.0
Furniture	4.9	7.0	12.8	10.4	12.3	7.1	4.5	6.7	6.0	4.7	3.1	4.1	3.5	3.2	1.2	2.1	1.3	2.0	4.2
Stationery and Paper	5.0	9.9	17.3	14.1	9.0	-0.6	0.9	10.7	-0.5	6.9	9.9	7.5	1.4	-3.4	-11.3	0.1	-0.4	21.3	26.2
Printing Materials	4.2	7.2	14.2	10.0	10.3	2.6	2.7	6.7	0.1	6.0	5.2	10.7	-0.3	-1.6	-8.0	-0.6	1.4	15.8	25.3
Tools and Apparatus	11.6	9.6	16.7	14.3	11.6	8.3	4.3	5.9	5.1	3.5	3.7	6.0	3.7	2.7	2.3	1.6	3.0	2.7	3.9
Chemicals	6.0	8.7	16.7	15.0	12.7	5.0	3.3	2.7	2.1	0.1	6.1	8.7	-2.5	1.3	-2.1	0.6	2.8	9.9	3.1
Postage	25.3	17.0	19.6	0.2	24.2	40.9	5.1	0.0	10.7	2.5	7.7	3.7	2.0	4.6	7.7	6.3	2.6	1.3	3.2
Long Distance	9.3	5.6	3.5	4.5	11.5	15.1	5.4	1.4	1.1	-0.6	-0.2	-2.7	-1.4	-0.5	1.7	0.9	1.1	0.0	2.1
Computer Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-3.4	-1.7	1.0	1.6	0.5	-1.0
Electricity	28.3	5.3	10.4	11.7	9.8	9.7	8.3	8.1	6.5	4.6	5.5	5.4	5.8	7.8	9.6	10.5	4.8	-0.4	-1.0
Gas	15.6	14.6	5.5	17.9	26.5	22.0	5.0	1.4	0.0	-0.6	-1.9	-2.5	-5.7	-1.0	9.1	2.5	7.9	2.3	-5.9
Oil	20.8	14.8	26.8	22.4	24.6	7.4	13.7	11.9	-5.2	-37.6	12.7	-15.2	13.2	5.0	-16.3	10.3	-8.3	21.5	5.6
Telephone	9.3	5.6	3.5	4.5	11.5	15.1	5.4	1.4	1.1	-0.6	-0.2	-2.7	-1.4	-0.5	1.7	0.9	1.1	0.0	2.1
Water	11.7	7.6	7.3	8.3	12.4	11.7	6.7	6.5	6.5	3.1	2.2	7.2	8.1	9.1	7.9	7.3	5.0	3.4	4.3
Renovations	6.8	11.1	15.1	9.4	9.7	4.8	4.6	3.3	4.4	5.0	4.8	5.5	3.4	2.4	-2.0	-0.5	1.7	3.3	3.1
Transportation	6.0	6.6	11.4	14.4	18.1	10.7	4.7	3.9	5.0	2.0	4.4	1.9	6.3	4.8	0.6	3.2	3.1	5.2	4.5
Shelter	8.5	6.7	5.5	7.6	12.5	11.0	5.7	3.8	3.5	3.3	4.7	4.9	6.0	5.4	3.6	1.7	1.0	0.5	0.9
Food Away from Home	5.3	8.7	12.1	8.5	9.9	9.6	4.5	4.0	4.3	4.9	3.6	5.2	5.1	7.3	7.5	1.7	1.2	1.4	2.0
Insurance	12.2	5.9	5.8	8.9	20.0	8.4	5.6	2.8	5.4	10.5	13.0	8.7	6.8	-1.9	0.1	1.1	5.3	1.3	0.7
Space Rental	8.5	6.7	5.5	7.6	12.5	11.0	5.7	3.8	3.5	3.3	4.7	4.9	6.0	5.4	3.4	1.6	1.0	0.8	0.9

e = estimated figure

Source: Figure A-2

FIGURE C-1 SOURCE AND WEIGHTING PATTERN OF COMPONENT INDICES

Component	Index Weights (1984)	Index Weights (1993)	Source
Books	7	7	Bowker (U.S.) Hardcover Book Price Index, converted for Canadian dollar fluctuations.
Periodicals	7	7	Bowker (U.S.) Periodical Price Index, converted for Canadian dollar fluctuations.
Equipment	10	10	Bureau of Labor Statistics. Producer Price index. Price Index for machinery and equipment, converted for Canadian dollar fluctuations.
Computer Equipment	10	10	Statistics Canada Industrial Product Price Index - Electronic Computing and Peripheral Equipment Industries.
Furniture	2	1	Statistics Canada Industrial Product Price Index - Office Furniture Industries.
Stationery and Paper	8	11	Statistics Canada Industrial Product Price Index - Paper and Allied Products Industries.
Printing Materials	7	7	Statistics Canada Industrial Product Price Index - Fine Papers.
Tools and Apparatus	8	5	Statistics Canada Industrial Product Price Index - Hardware, Tool and Cutlery Industries.
Chemicals	4	4	Statistics Canada Industrial Product Price Index - Chemicals and Chemical Products Industries.
Postage	3	4	Statistics Canada Consumer Price Index - Postal and Other Communication Services.
Long Distance	2	2	Statistics Canada Consumer Price Index - Communications.
Computer Software	0	3	Statistics Canada Industrial Product Price Index - Electronic Computing and Peripheral Equipment Industries.
Electricity	9	12	Statistics Canada Industrial Product Price Index - Electric Power Selling Price Index (Non-Residential) over 5,000 KW - Ontario.
Gas	7	3	Statistics Canada Consumer Price Index - Piped Gas.
Oil	1	0	Statistics Canada Industrial Product Price Index - Heavy Fuel Oil.
Telephone	4	3	Statistics Canada Consumer Price Index - Communications.
Water	1	1	Statistics Canada Consumer Price Index - Water.
Renovations	3	2	Statistics Canada Construction Price Statistics - Historical Non-Residential Price Deflators.
Transportation	3	4	Statistics Canada Consumer Price Index - Transportation.
Shelter	1	1	Statistics Canada Consumer Price Index - Shelter.
Food Away from Home	1	1	Statistics Canada Consumer Price Index - Food Purchased from Restaurants.
Insurance	1	1	Statistics Canada Consumer Price Index - Homeowners' Insurance Premiums.
Space Rental	1	1	Statistics Canada Consumer Price Index - Shelter.

APPENDIX D

DERIVATION OF FTE ENROLMENT

The basic approach in this report has been to examine the university enterprise from a global perspective. Consequently, where measures have been derived on a per student basis, FTE enrolment figures include students who are eligible and ineligible for formula funding. Fall-term enrolment headcount figures were obtained from MET for full-time and part-time students. A full-time student is counted as one FTE and part-time headcounts are divided by 3.5 and then added to the full-time counts.

Different methodologies have been employed in those figures and tables that compare the Ontario situation to that in other jurisdictions, either other Canadian provinces or institutions in the United States. These methodologies are outlined below:

Figure 6, Tables 8 and 31 - FTE headcount enrolment figures prior to 1990-91 were taken from the annual reports of the Tripartite Committee on Interprovincial Comparisons. The Tripartite Committee's data originally were obtained from the Statistics Canada University Student Information System (USIS) for fall and summer terms, supplemented by provincial information, and include both eligible and ineligible enrolment. A full-time student is counted as one FTE and a part-time student is counted as 1/3.5 FTE. Provincial figures include students enrolled in institutions within the province and interprovincial transfer students from the province enrolled in institutions in other provinces who are funded by their home province. Medical interns and residents are excluded from the figures. For the methodology used in the calculation of FTE enrolment commencing in 1990-91, see Appendix A.

Figure 9 and Table 12 - These figures are the same as the figures in Figure 6 and Table 8 with the exception that interprovincial transfer enrolment is excluded.

Figures 10 and 11 and Tables 14 and 15 - FTE enrolment figures for selected Ontario universities were derived from fall term, eligible enrolment headcount figures from MET. A full-time student is counted as one FTE and a part-time student is counted as 1/3 FTE. This divisor was thought to yield results that were more comparable to the figures for American institutions.